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Scientific Fiction

Vol. 5

July, 1930 In Our July Line

No. 4

In Our Next Issue

SKYLARK THREIL, by Edward E, Seeith, Ph.D. (A Serial in three parts.) Part L. Jaint about two years ago-aprellersby two years ago in the Againt must—no began that ranch landed story. "The Steriotes the company of the parts of the company of the story o a serial in three parts. "Baybark Three" is more anagolferes, entitier and more thrilling than the other. We suggest that you order your magestaxs

WORLD ATAVISM, by Edmond Hardison. WORLD ATAVISM, by Limited Revelled. We know that the sun's rays play an all important part in the present story it is laken that they are constantly improving and coulding a higher once of man. In this short stony, Mr. Hart-lifes used, for Firs, an unusual theme, which he wrates destroyally into a tip of considerable in-

THE INFERIORITY COMPLEX, by Miles J. Brease, M.D. According to the views of source of a great many consplaced people week the bester of 11 they led a strong joinance of the inferiority corceller, green to them. Here we have us existent sutherity giving at a woodering in of feathary based as higher phenistrated as the properties of the complex of the is not only a rossesper of Stereny value, but

THE LAST WAR, by Capt S. P. Mosk, U. S. A. Who should be more authorized to write a clery on the wors of the farture than an army man? Cost Meek is se army man. He has evolved a most ingenious treating on what man may do be the future to conquer reflects. It seems almost properties SOUTH POLE BERYLLIUM, LIMITED, by Peter van Derson, Berylken is a quitable has oil the current and it is a metal which bels fair to enter into industry, in a nearth which bels fair to enter into industry, in a nearth which bels fair to enter metallitry, or alsest to be such Adrical Byrd, cutabilities besself to be such a bell and the cutabilities besself in the Senty Pole, mapped these now familiar to us. This story is particularly appor-tume at this time. Both subjects are fresh topics in the world of science. A Visit to Spari

The Driving Power Peradov d. (Sequel)

What Do You Know?

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The Message from Space 330 The Universe Wreekers

(A Serial is 3 Parts) Part III

In the Realm of Books

Our Cover this mouth departs a serve from the every received, "The Meson force Space," he Dovid M. Sproker, in which an inhabitate for one of our sizeffices, which the action with Astrony is seen type to means from the content of the section of the second type

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Published monthly by The Experimenter Publications, Inc., at 184-10 Jameica Ave., Jameica, N. Y. B. A. MACKINNON, President H. K. FLY, Vice-President and Transparer Price 250 a cryy pulsorizina \$3.00 a perr let U.S. A., \$3.50 a year

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Interplanetary Travel

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where we will be considerable that the constant and the constant time produced from the configuration of the confi

But our professor gots further. He believes that in the not ray dataset future—recoil cally he against the year 2603—echicums pool will be required to make possible seccentric lights to the spots. Other difficulties exist for such trips, of covers, but rot. Steward, assort others, does not brief they are At a beight of time or the raise, the strents on an orienter as shown transduction, as the cold and markatines of the time requested irong, Amelical lang, of corresp, could be precised to the property of the contract of th

On said the from through sales to the resistant shap, driven as on regarding control of the said and the second, which would be not regarding control of the said and the second is formed and have we find a double factor. The presupent is formed prompts in an alphane to the all City and the said and the And have we find a double factor. The presupent is formed may not be fine to the said create in the fine projection to be a the said of the said control of the said control of the said and the said to the said control of the said to be a fine forward excellent. The said day said to the said control of the said said control of the said control of the said said control of the said that the said control of the said said control of the said control of the said control of the said said control of the said control of the said said control of the said that said control of the said said control of the said that said control of the said said control of the said control of the said control of the said said control of the said control of the said control of the said said control of the said control of the said control of the said said control of the said control of the said control of the said said control of the said control of the said control of the said said control of the said control of the

where the state of the state of

We hardly need authority for giving so many interplanetary stores, it is interesting to third of how future generations may read them as amplies of what simple matters the ancients considered "massivities".

A Visit to Suari

A Martian Comes to Earth

By A. Hyatt Verrill

Anthor of "The Bridge of Light," "Death From the Skies," etc.

The included set of the control of t

Illustrated by BRIGGS

CHAPTER I

Kespi-Nanny Returns

XCITEMENT, speculation, wonder and interout run high m Sonko-Huges, for news had been strend that Kespi-Nanay had returned. It was almost as though a person had returned from the dead. In a way, it was more ereating, for persons had been known to be respectated; moreover, everyone knew that death was merely a state anceber. But Ketti-Nanay had not died. He had merely disappeared-variabed completely-three Chukitls (years) before, after declaring that he intended to visit Souri, that oreat, plouing, mysterious, planet that from the very beginning of history had been a source of wender, of study and of baffling assistery to laymen and priesting after. It was the propert plane to Seriesarated by some forty-old million Turous (miles) of space. Yet through the ages the astronomers of Soulos-Huara had learned much about their oreat, plowing neighbor, that, like their own planet, raced about the sun and rotated upon its own axis, so that the Soulco-Husran scientists knew that the seasons, the climate, the afternating days and nights of Succi must be very similar to their

Through their telescopes the astronomers of ancient times had attailed Suari; they had viewed its surface from pole to pole and completely around its circumfer-

one, for unlike Quilla (the moon), that persented only one wide to view as for as Sauri as concerned, Swai year, sented every portion of his surface to the eyes of the studiest and conficient and necessitistic and concerned in the studiest of Swain-Moone, the studiest in the studiest in the studiest in the studiest three studiests of the size places. Of the, for lower periods of time, certain portions of Sauri was exceptible placetated by these insepretated for surface of the surface that the studiest of the studiest processing the studiest of the studiest of the studiest processing the surface of Swain studiest of the studiest processing the stu

Above the results or the monital sensor signature of the result of the control signature of the result of the control signature of the result of the sensor signature of the result of the sensor of t

peated at fixed intervals and that they bore a direct reis-



timblip to the position of the planet in reference to the sun. Suddenly the Socko-Fluoran astronomers had had as interieston. Their prejudocine of some must be inhabited.

the beings cultivating the land.

The Sonko-Humm astronomers, the scientists, by the common property and land.

other planet might be life. Were they formed like the inhabitants of Souko-Hours? Were they weird, morning, feargone creatures? Or were they totally unfile anything ever known or sets? Yet years had possed, centuries, as we measure them,

Hauman adentifies had been continued, before instruments has been perfected to such a state that the observers on Sunko-Haura could prove that Suari was mitalized. Gradually the other place had been beought visually closer. It was not expected discovery when lights barism.

covery when an astronomer of Souko-Huaca had seen a city on the other planet. With each new discovery of this nort, each amouncement that there was some new and indisputable grood of the existence of sentices, intelligent brings on Seari, citoris to obtain a more intimate knowledge had been redoubled.

Ares before the return of Kespi-Nanny, after his mysterious absence, the surface of Suari had been brought ectically within a few thousand miles of Socia-Huara, It was by this time an established fact that the other planet was thickly reculated by some sort of intelligent beings. They had cities, towns, Johns. They moved from place to place. They dug casals, they leveled mountalos, they transformed the surface of their lands over vest areas. Yet all the constant minute studies devoted to them tended more and more to prove to the inhabitards of Sockre-Hears that their neighbors forty million. miles away were immeasurably hadaward and behindhand, that, assuming them to be in the least similar to the Sorko-Huntzon, they were more or less in the same state of civilication as the inhabitants of Sonka-Huara had been in their prehistoric days. Their stunislity, as lutely astomoting. Not only was it evident that they still made use of the archaic method of obtaining foods and other necessities by agriculture, but in addition their

of Soint-Times, the ministiligent creatures on Start filled to respond to the plant and timely eighal that that been deviced to attract their attentions. The simplest and mast reality real missages had four formed on the surface of Sonko-Times and had been displayed day after day when the two plants were nearest to each after day when the two plants were nearest to each when the plant of the plant of the plant of the minimum of the plant of the plant of the plant and to be seen to the wadness plant and tool minimum they curveyed nothing and it was decided they were morely to Simumbus 1000 cm 1000 cm.

amples of the survival of ancient, long-alondoned har-

THIN had done the strongs, we have a considerable to south the laterate of this action of the principle of the southern for the principle of t

superior knowledge, could be not interpret the woods?

But despite the fact that Kespi's theories and beliefs found few followers, interest, that had flavored for warra-

was revived, and once more Spari became the center of

all interest, all speculations, all studies.

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Various wild advaness were suggested for visiting, the

a other plante. Learned scientists speat days and weeks

of in informac calculations to prove that a traje to Stain' was

advanced brownedges of the inventors and gelemitat wa
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planted in trying to devise some means for making the

journey. There were granklationally impedied methods,

market were designed in the incident into space by

a trajectory. We in every case there was some impedien
term. Beat typen. Veri in every case there was some impedien-

also types. It is every case there was some imposiment, some firstl fairly that proved containing that now would serve.

It is a server of the containing of the capera, several could were tried. One matrings of the capera, several power role of the composing atten, left the surface of the power of a decomposing atten, left the surface of the plant. It guidness special working that it became inwishle, but, a few monometa later, a terrific explosion in the upper armosphere told the mixious and hopeful

pinet. It gained speed as selfely the 8 beauty side, which has been been as the self-lengthesis in which has a few self-lengthesis in the self-lengthesis in which is distributed by the self-length s

the orbit of Suari and presently, to the better of the Section Hantana, was determined the beyond any parsistable of durint the spannism had become a satisfie of the planta and sun domord forever to more arrand and around the sphere like an intendant moon. Then, when everyone had given pay Metas of severbeing able to visit the flactuatedy mysterious Suari, Regol-Natany tall occur sat with his shortheyly sottom, ing statements. Matter, by declared, was all langiancy. It is did not exhault speak. It was neverly a confusion to a

grouping of prisons and electron. This was by no means a new theory. In first, percentions before Kuşi had been incubated and brought into custrees, other Schole-Haman scientists had peremplased cractly the same theory. But nothing had eser ounce of it, no embal cust have been prived in Fig. 18. Keşi had cure trees talk encademistry to prive it. Fig. 18. Keşi had cure trees the customistry to prive it. Fig. 18. Keşi in sinut that the discovery proved the way to visit. Somet and to return is adult.

Naturally he once more homes the target of derision, riciosia, jokes and incredulty. To do a thing was not county; the important matter was to convince others Archivement amounts to nothing unless the public admits the fact of that archivement. Kopp was determined that his astocialing achievement should be admitted.

So be amounted that he would give a public demonstration of the terrsh of his claim. Illi promise was more than fulfilled. Before a was more than fulfilled. Before a was made than fulfilled. Before a was been also provided the second of the

only with fowl on Scalab-Linar; he waish before ceryonic eyes. Then, as the people lineard most attentively, he started that he had goes further with his experiments than he had reveald hilberts. No confy, he inferent them, was matter merely the result of certain arrangements of protocs and electrons, each form of matter so-called being the result of highly varying combinations, may or all or which might a with be broken up that the independent quanta and so rendered intribility, but, in the control of the control of the control of the interpretation of the control of the control of the interpretation of the control of the contr

original places with the protons.
At these words are exchanging oil incredulity arose iron thomands of lips. It sulpit be possible—in size, the control of lips. It sulpit be possible—in size for cold to disappear. By warm-had matter made set forced to disappear. By warm-had matter and yet it could be mostle to evaporate and vanish. Morall was matter, yet it could be considered to evaporate and vanish, and with the could be mostle to evaporate and vanish. Morall was matter, yet it could be consumed by finance and made to the could be consumed to the control of the contro

state was too incredible.

The next moment they began to have their doubts as to their conviction. Keeply, as if reading their throughts, was speaking of these very things. Water, he was pointing out, each lie recovered—was not ship precisely white the same time of the process of the pro

had been composed, and foreing them to group themselves as in the first place? Hardly had he spacen when, by seemingly magical means, the cube of metal, the bean of food, the bird were

once again before him—anajored from rothingness, term the six.

A disclering rost of approbation and applians ground him demonstration and deveneed his next words. When order and release had been restored, he made his most assumabing statement of all. Not only could an object be restored, reduit from its original persons and electerose, to the informed the annual copyels at earth eventual to informed the annual copyels at earth and the contract of the contract of the contract of the six of the contract of the contract of the contract of it had been distinguished. And to prove this loverable statement, be proceeded to come the fixer objects to work

shed feet datum.

The proofs by this time were beyond expensing that the proofs by the time were beyond expensing that workmarked them. "My discovery," showered Kengle Well to the means of of orbeing that agency of problem of a proper property of the proofs of the pro

ish, and before you have realized it has gone, it will be in its original form approachers mean the surface of Susti. But--- " with a hearh, "of course it mirly be beneath the waters of that planet, and countly, of course, you could not see such a small object on distant Suari, and hence I could not verve my claims. But"-his tones were so impressive, so expand that everyone assorted broathleasty for his next words-"but," he repeated, "so sure am I of my deductions, so convinced that my reasoring is correct, that I plan to test the matter on myself. Tomorrow I shall cause myself to be disintegrated, and-if all rors well-shall cause myself to be reassen. bled upon Suari. In other words, I shall be transported contex as a horly of matter live as countless triffices of electronic and vertonic units-through forty million Tuppes of space and will find sayself in material form

you ask, hour do I know this? By reasoning, by logic,

by the unpherable laws of the universe," he exclaimed

"I can assure you that I can make this metallic cube van-

"Of course," he smiled, "I run a slight risk. I, like the metallic cube, might be reassembled in the water. I misht be reformed in some other equally unpleasant and final situation. But that is a chance I must take. The proteise of the adventure is worth risks. Personally, however, I do not foresee any such difficulties. My experiments have proved to my own satisfaction that I can cause an object, reduced to its constituent electrons and protons, to form again within a very restricted area, predeterminal by myself. I have selected the area on Spariwhere, if all goes well, I shall be reformed. It is a root that is somewhat remote from the stratge collections of structures, which we assume to be refuges of the Susrians, and in an area that-out having presented the alternating colors indicating the presence of living beingsis, we assume, minhabited. I do not ... he smiled ... "particularly desire to appear suddenly test as if by some supernatural means in the immediate vicinity of a Sunrian or of several Suprians. We may feel fairly certain

or own autonoms in the remote past when they, too, depended upon the enhancement of the first largestisoid. I might be attent demon-even decoursel by the bod. I might be attent demon-even decoursel by the friendly interestion and by physical actingly understood. Meteorers, as we have no conception of the physical percentant on their substances of sourt, large, and proiscrement to direas. Naturally we assume that, as South or many terms the last of Sorteo-Bears, its inhabitants will be proportionally algorithm, and hence I would be "the "many and a single-" affect that the risks. My

from our observations and studies that they are a primi-

tive, backward and not over-intelligent lot, and probably

therefore as superstitious and as reachly startled as were

greatest fear is that I may not find it possible to return to Souto-Huara. Conditions on Smari may preclude the possibility of my reversing the process by which I keep thre and reappear on Start. Naturally I shall take my

as agentarios as from Start—the constituent electricis indextonates with me, the attrasplant, destroid, gravit and person of a uttare can traverse ages exhanned and sinch-art - downsed conditions—my interfere with institutionarily. Hence to object rough be reduced to it to return output of the condition of the

may reamnear among you at any time. But if I do not my loss will amount to little, whereas if I do, I shall have learned the truth of our neighboring planes.

ESPI had knot his word. In sight of all, at the hour K ESPI had kept his word. In again or a care well and, of Kora-Ma, he had bade the public farewell and, an instant later, he and his compact matraments had van-

tshed before their ayra. And now, three Chulous after that dramatic disappearance, Kesto Nanay had returned! Muchu-Tay had been the first to see him. The old fellow had been anspecting the local vitamin plant near Ir-Clus when a slight sound had attracted birn, and wheeling about, he saw Kesni-Namay standing almost by his side. But as fear fright, superstition and the sensation of being startled had, ages before, been lost to the Sonko-Huarans, Micthu-Tay had merely expressed mild astonishment, and

instantly had sent the news flying throughout the planet by means of the thought disseminator, which he, like Yes, Kespi-Namy had unquestionably returned. He had altered in no way, and he declared that he had been on Suari for three Chukitis; moreover he would publicly relate all his experiences in the Muru-Ti, so that all the inhabitants of the planet might, if they so desired, both see and hear him, for the Muru-Ti or public auditorium

was enripped with the vision-disseminators as well as the audio-extensors that rendered him both visible and audible to all on the planet, who cared to adjust their instruments for the purpose CHAPTER II

First Impressions

EVER in the historic true of Sonko-Hunra had there been greater, more wide-spread interest and expectation than were caused by Keepi-Nanny's amountment. At last, after area of sympless of studies, of deductions, none of which had answered the negatio, the truth of Sunri and its desirons would be earned. No one doubted for a moment that Kesni had actually visited the other planet. His demonstrations, there years earlier, had removed all doubts as to his claim, and while everyone had long since esene to the conclusion that he had either failed to restorislise on Sunri or, having materialized thereon, bad been destrough or had been proble to return, the fact that he had

returned convinced them that his amount undertaking had been a complete success. A universal holiday had been amounteed, to continue until Kespi had completed his narrative. But this was really superfluous, for no one would have attended to his or her deties anyway and, moreover, the Apus and Amautus, even the Tarancas, could be counted on to be present to hear and see the returned internlameters wanderer, and without them the public would have been as beloless and as futile in accomplishment as on and

without its antennoe. Hence practically every being on Sonko-Huara pave undivided attention to Kespi-Narray when he entered the great auditorium of Muru-Ti and, seating himself between the Amount-Ka and the Apu-linki, proceeded to tell his fellow Sonko-Huarans of his amazing and almost incredible discoveries and experiences on Sunci. And often, as he spoke, his listeners unconsciously and into see some of the strange beings or murvelous sights that Kesni-Narroy was describing. "As you all know." he began. "I caused my material body, together with my Of that disruption of my protonse and electronic compotent parts, or of my instantaneous fashe through smoot I have no recollections. I have a dim memory, like that of an exasive dream, of strange sensations, of whirling madly like a bit of dust. But my next actual concrete sensation, after I turned on my disintegrating and prosecting device, was one of standing in a strange place. I felt so vatural, so precisely as if pechtur had harmoned that, for a florting moment, I feared nothing had hapmy surroundines ressured me. Nothing was familiar. Never had I integrined such a spot. I was standing on a far-reaching area of meky sand. Above me was the blue sky, and across it stretched masses of the same white vapor we have seen so often about Stari. Also, there in the sky, was Quilla, but appearing very small and far

hendschere of Soari in the sky, as if actually expecting

"On one side rose high, bare mountains, on the other the plain stretched to the horizon, and within a short distance of where I stood I saw an amoving sight. There, staring at me, enrigently but apparently unafraid, and not even surprised, were a number of the inhabitants of the land. Never had I seen such impossible construes. No Sonico-Huaran imprination could have remorized of such beings, and even if I describe them to you, my friends. you cannot picture them to yourselves. They were brown or black, shappy-slottned and stood on four legs. Their necks were long, thin and bore elongated heads with immense ears and large dark eyes. They appeared intellipeat, and indrine that they must be more intelligent than we of Sorko-Huara had thought, I addressed them. They evidently beard my words, for they moved their ears, but they made no reply. Of course I was not surprised. I had hardly expected that the Suzrians would understand our lenguage. So I made signals, but the Suarians shound to signs of understanding

"They appeared peaceful and quite harmless, so cautiously I approached them. I was quite close to them when they turned abrundy and moved of Fyidestly they were suspicious of me, and desiring to let them know I intended no harm, I spoke again. This time they termed about and took a few steps in my direction. I was delighted. I felt that they must understand my tones, even if not the meaning of my words

"Then a most amazing thing hoppened. Another creature appeared from behind a rock. He was much smaller than the first inhabitants and he stood upon two legs! Ah, I know you will find it hard to credit that statement, but it is the truth. And you can find it so more difficult to believe, as I tell it, than I found it, as I saw it. A living intelligent being on two feet like a bird, and other living intelligent beings on four feet! Obviously we had never pressed the truth. Suari was inhabited by two forms of beings, and I wondered if it could be not sible both were the same species-if one were male, the other female or if one was the voucer of the other. But the two-lessed creature differed in every respect from those of four legs. He, two, I noticed, possessed four limbs but he stood on but two and used the other two for grasping objects, as we use our monthers, whereas the

creatures on four legs possessed no limbs for grasping.

Moreover, the two-leaved being was red in color, his skin appeared to hung in loose folds from his neck, and ver his limbs were of a different house color and of a distinct texture. Neither was his neck long nor his head dongsted. On the contrary, he had scarcely now his ears were deformed until they were accreely more than orifices; he had no horns; his even were but two in being covered with a rough wool or fur; and his mouth showed no tusks.

"He stored at me for a space and then spake, and to my astonishment I found I could comprehend his words even though they were different from our own. I gathered that he asked who I was and whence I come. So I replied that my name was Kerni-Naray and that I came from Sonko-Hunra. His mouth widened in a meet remarkable manner; he appeared to understand that all this time I was filled with practishment. He did not appear to be terrified or even amazed at my annearsuce, as I had expected he would be at seeing for the first time a visitor from another sphere. Surely, I thought. my form-I elasted down at myself and smoot in other amazement. I was not myself. I had but two legs, two arms! Half-fearfully I raised my hand to my head. My horns had vanished, my soft nepdant ears had disanpeared, my magnificent tasks no longer protruded from my line my tectocular auteurae were missing! For met scales, covered my bend, my engs were mere holes; in short I was the exact counterport of the two-legged creature before me. I was dambfounded. I feet as if in a dream. Then suddenly, I understood. The ensurinment electrons of my being, when reassembled with my protons upon Suari, had produced my material body in the

forms. No doubt, I decided, were a Suarian to be transnorted to Sorkou-House by the methods I had used by would be materialized in the form of a Senha-Harris. Bug I was thankful that I had assumed the form of the two-lessed inhabitant rather than that of the beings with four logs, who-chough they appeared far more intelligent-seemed durab, for as yet they had utwend no sound. I was assonished also that I could converse with the strange creature of the two legs. For a space I thought that cossibly the same laws and conditions they had so altered my body to a Suzrian form had affected words the other being used were so familiar, so nearly identical with those of my own tongue. I east aside than theory. By some amazing coincidence, or for some unknown reason which I might yet discover, there was a very close relationship between the two linerances.

form of a Sunrism.

"BUT my speculations on such matters were inter-rupted by the appearance of two more beings. One was precisely like the first two-legged being, the other was quite different. The bend was similar, but the colors of the strangely loose skin were brilliant and the creature accounted to have no legs, the hody extending in a solid mass to within a short distance of the ground. This was the more remarkable as the being possessed free

that appeared to move back and forth under the solid body in a most america manner. It was not until much later that I learned that this being was the female of the others and that it actually moursued less which were concealed by artificial layers of skin that the Suarious call "ciothea." In fact, I found to my astonishment that all the loose, bright-colored coverings I had seen were artificial and that the true skin fitted the body closely and was very smooth, soft and pleasing in shade, although, as I shall explain, the tist ranged from a very dark, blackish-brown to almost nore white, a truly remarkable condition. It was also, I learned, considered very wrong

and a proof of barbarism to appear without the artificial sum over one's body, and the belows I first met. stared at me and ottered strange sounds with their mouths wifely open, became I was not provided with such coverings. Presently, however, the creature who I found later was the female spoke to one of the others who pulled a portion of the coverings from his own person and placed it over use. The others added more pieces until I was covered similarly to themselves. To me these things were most uncomfortable, feeling very rough and irritating to my body, and I would have liked to have cast them off. But I wished to remain on friendly terms with the strange beings and (at the time) thirding it was perhaps a ring or ceremony inducative of friendship, I sore the discomfeet. Why these beings of States should have developed such habits is beyond me. Their hother, ugly and deformed as they were, were far more symmetrical and admirable without the artificial coverings, that some such protection was required for the creatures' bothes, their sleins being most tender and easily injured. not being guarded like our own by strong amics that are replaced by new growths when injured. In fact, in-"It was a contingency I had not foreseen: yet, now I juries which we would consider slight often caused the considered it, it arranged perfectly natural. The conditotal disubility or death of these Sugrians, for they are so tions of Sunri that had resulted in the molding of such low in the scale of nature and so primitive in their depuny, underdeveloped, physically imperfect beings as the velopment, that they cannot replace even a lost appendage or buth with new growths like purselyes. Morrower, shift ough the variations in their climate are not as great as on Sonko-Huyra, yet as these miserable beings do not after their natural bodies to suit conditions, but remain al-

> "But to return to the strange beings I first met. Hauing been covered with the objects, as I have stated and thus made to annear even more like the three creatures they seemed to be more friendly, and one of them did a most assounding thing. He produced a petriliar object which he inserted in his mouth. Then, to my unbounded astonishment, he magically caused fire to spring into being in his hand, and placing the flame asserts the obsect in his mouth, he breathed in the fire and emitted smole from his postrils. Never would I have believed such a feat nessible had I not witnessed it with my own even, wet the others appeared not to be surprised. In fact they also send one their own from eachings and soon all three were breathing fire. I noticed, however, that the four-legged beings did not do so, which convinced me that they were the superior beings and that the others were probably servants or inferiors. Yet this thought troubled me, for in that case I had been reformed on Suzzi not as the superior but as the inferior type, which would indicate that the Sonko-Haurans were inferior to the Searisms Bot I had little time to dwell on this, for

ways the same, they are, perforce, conveiled to arised

themselves to the weather by varying the artificial skins

or 'clothing'

one of the two-degred creatures was offering me a firemachine. Leves book in horses at the thought of breathing flame, but the being appeared to perturbed by a these, feeling I must use every care to retain thir friendship II I were to learn ill I desired of their ways, summoned all my courage and phose the machine in supflies. To my surprise there was no fire me here, and

this, feeling I must use every once to recasin chair friends, his fit I were to be marin it II delated of their ways, it, his fit I were to be made and the second of the second like the second of the second of the second of the like the second of the sec

planton test maries overlapped that many access. Teams, "Thirting model the smole corrusped," the test of teams, the team court from where they had been seated, and invibing me to accentize them, they smorted forward. To my runnarment, the four-depend beates moved with them. In fact, of the test of the te

superior inhabitants of Senti. However, it made me del a bet cate; for it proved that the form I had assumed user that of the superior betrips.

"Freezerly we superwhole some per circles that been exceed at time and the superwhole some per circles that been exceed by living belong, and I support and stared with incredulers over, for upon one of the stones use crewed the figure of a Souther-Hauster I it was quite unresistables. The numerous appreniages and starked, the branch provides and the state of the stones are crewed the figure of a Souther-Hauster I it was quite unresistables.

tinct. What did it mean? Were there beings like ourselves upon Suari-perhaps the rulers of the plane! "I turned to one of the two-legged creatures and asked him. For a moment he seemed succled. Then he replied that the figure on the stone had been there always, that in nost ages it had been adored by his operators and recorded as a god. I asked him if similar beings lived near and at that he and his companions made strange believing sounds and thele mounts occured mobil their short mickes teeth were excosed, and they said there were no such creatures in existence, even if there ever had been in the past. I told them they were note wrong; that upon my planet all beings were of that sort and that I myself was the same when on Sonice-Huara. They recarded me with most reculor expressions obviously with unbelief, and presently again gave way to their strange sounds, which I may as well embris were their indications of derision and hilarity. Evidently

they chought my words were a great joke.

"A S we continued on our way, my mind was buy
wondering if there were no Sociol-Hamarra on Sunit, how could the inhalitants ages before have been
familiar with the appearance of our race? Than I recalled the ancient Regard of our people, wherein it is teld
a great Apa mand Planks produced made, and so essays
his estimes, flow with his followers from Sociol-Hauna
and vanished foreers. Way in two copility data there was have reached Sunti? I do not know, but throughout the portion of Suari where first I arrived I found many images and statues of the Sonko-Huszun forms, and in the traditions of the people, there was a being they called Pachak. But I had so many other strange and astonishme things to interest me that I gave little thought to each speculations. We soon came to a doep valley and there the brown earth was hidden under neh green, and water flowed in casals as it does on Senko-Hunza. But the rands were tiny affairs and the green was, as we have long ago surmised, the color of the vegetation of Suari. In the valley also, was the collection of structures wherein the Suzrians dwelt, for incredible as it may seem, these beings dwell in cubicles thosely pleand in groups and herd together like sworms of insects. Their strange reasons for so doing I tearned later and I will leave the explanation until I speak of the larger groups of structures that I visited subscructuly

truth in the tale and that Pakak and his follows much

"In this first group were hardes of the row-legged creature, miss, inmiss and young, into two exactly allies, for not only do the Suariasa way individually, tur, as I found that; where are many nones of them, varying in color, in size and in every respect, even as to intiffgence and column—all working it is cross-purposes and current fighting with one another. But in this first place I winted all sown of one color or energy as and of one roce, although their artificial alons varied in color and form.

"Also, to my amazement, I discovered that the fourlegged beasts were not artificially covered, but that the shaggy coverings actually grew upon them, yet they were inferior creatures and more shows of the two-leaved beings. More surprising still, I found that these were not the only shows. There were gunt creatures with horns upon their heads; there were smaller beings with unnesselv longe ears and big heads that served the twolegged erestures as beasts of burden; there were still smaller four-legged Suarians that possessed sharp teeth and that appeared savage and uttered sharp berleine sounds when strangers approached, but were docile with those they knew; and there were many other four-learned things as well as hosts of birds larger than the Pileon All of these I learned were kept in captivity by the twolegged beings and were forced to labor for them, which was must strange, for meny were superior in intelligence and in senses to their stuped and buckward mosters. Although you may not believe it, yet it is a fact that the two-legged inhobitants of Suari-men and women as they are colled-are so deficient in sense development that they carnet see sount nor sound; they exerne hear light nor scent, and they cannot small sound nor light. Their eyes, of which they have but two, are used only for seeing that which is the result of light waves. Their ears, which are more boles in their heads, are surful only in deterring scend vibrations, and their notes which also are holes in their heads, can only detect odors. Moreover, being thus deficient and unable to use their three sense organs in unison or to substantiate one another, the Sunriana are banercably deficient in sight, bearing and scent. Many of their captive creatures are far superior to them in these respects, and it is a most amusing fact that the se-called superice beings actually keep the so-called inferior creatures (especially those with the shorp teeth and bark-

ing sounds) because the latter possess keener sight, hear-

ing and scent than their masters and bence serve as

additional ears, noses and eyes and ware their masters

to propose the second s

For example, I was some that the various form-legal creatures were convertise among themselves, and while I could not understand their languages, it proved have adequested and underselved were the two-legaly propel, for in all my travels I found some who could hear the works of the four-legal enterine whom two propers of which I first reached the shifting place of the those beings I had met on the plain, I found many of the firmalia performing mysterious rises over first. A first

beings I had met on the plain. I found many of the femakes performing mesterious rites over fires. At first I thought that sacrifices were being offered, so you may judge of my associahment when I discovered that they actually were preparing food! To these benighted backward and studid beings sustenance is the main object in their life. All their efforts are heat towards neosyline food. They labor and strive and live with the one end of keeping life in their bodies by means of food. And marine, if you can, what their food le! We have lone ago decided that the Suarians must still aftere to the prehistoric, archaic method of cultivating the soil and mining cross for sustreases. This I found use the case, but they so even farther back. They arreally kill their captive beasts and birds and devour them! And the poor, deluded, ignorant creatures have never learned that all they obtain in the way of food by each roundabout means may be sourced with little effort and no

"I MAGINE, laboring to prepare the soil, sowing seeds, raising vogetation and devouring the reaching plants in order to supply their bodies with the elements that are derived from the air, earth and water by the plants? And imagine, if you can, the still more roundabout, clemay and wasteful method of rearing such plants, feeding them to beasts and then killing the beasts in order to extract the few atoms of sustenance needed, and which have been eathered by means of the plants and tempered to the flesh of the heasts! And the beasts' enreases, the waster material of the crops, are used to supply the elements for more plants and more brasts to provide more susterrorce for these Suarious in a vicious, never-entire circle. You would be absolutely assounded were I to describe what and how those beings est. So great is the waste material in all they call food that one family is forced to devour daily material whose balk would equal the amount of concentrated foods required to feed our entire population? Though they benefully declare themselves intelligent, highly civilized beings, even sciencists. energy are distributed about them and may be extracted directly and with little effort from their servemdirers. without being put through the ciumsy extraction process of olants, firsh and fourt. Though their more learned members realize that all energy and power is derived from the sun, yet never have they learned how to emolor the energy and power of the sun directly. Instead they follow the same roundshour methods as in producing

Thisy burn materials, release the stored energy, water the greater part of it by the employment of crude machanisms, espeure and control a small percentage of the energy tirsy have released, and by a memplished, firvalend method make use of this small reasoning portion of the energy for their purposes.

"I was senious appointed to the terrific, criminal waste."

everywhere. Fortunate indeed are the Susriaus in possessing a large planet still young and rich in its natural resources and elements. Yet even so the waste is so sharenfury that, within a short time the Surriva will have exhausted the life essentials of their planet and will perish miserably from their own lack of foresight, if they do not advance and improve intellectually to the point couched by our forefathers countless acus aco. But all these things I learned little by little as I moved about. for in that first nest of the beings I learned very little first encountered were a very inferior and lackward lot. for unlike ourselves, all of whom are given the same intelligence, the same senses, the identical bodily nowers. the decisess of Suari are of immunerable gracks of intrilligence, of heddly development and of sense acutenest. Partially these variations are due to race partly they are due to climate, partly to surroundings, but yers largely to the fact that the Suzrians, no matter of what race, learn only by example, by being taught by others. They have no instructive knowledge and the offspring of the most intelligent and advanced, if reared apart or amid the inferior members of the population, reach maturity as stand and backward as the offspring of those shout them. On the other hand, the young of interior and unlesselligent beings, if seared and taught by those of the superior chears, may and often do, excel their mentors in attainmenda

There has been some effort made to bring about a general and melecular improvement of the population by a system of education, but it has amounted to very lattle as far as I could judge by even careful study and

"Magded with the olive strange and perioducial lintures of these beings is corrious felling of independence, a closive for personal Berry that, considering the conditions that cause, it most annuals. Though robled encephency of all real ferroises, complexity substrations are supported by the contract of the contract bloom, to surface and the farm of matter that the contraction of their faces; contact to be ordered about, to found to surface their breas and to destroy others as the demands of those they have more never and do not know and with whose quarries they have now concern, yet they are not ordered to alliest to say insortation that is for the me and ordered to alliest to say insortation that is for the

their engages by day appointed surfacellist, the engelist than of their finds of spatisty and quantily, the destruction of their finds of spatisty and quantily, the destruction of the unifi-the inhesits and elippies—and the thounal and one is the set of Soulo-Haran bave long age adapted and which, as proved by experience, appear community as a whole.

"their I am getting too for whead of my experiences. All these materials I learned long after I let'th the belogs. I

"first met and after I had found and mingled with the white Starians who claim-and perhaps nightfully—do be the most intelligent and prospectative of the inhalitants of the planet which they call the 'earth' or the 'world' and who call Soule-Hears by the same of 'Mars'.

The Monsters of Susri "NE of the earliest discoveries I made was that all

Suzrians-or as they call themselves, human beings' were not of the same race and that no language was universal to all. This came about through the arrival of a remarkable being in the community where I had first arrived. He same across the plain a algoritic four-leared creature with two hodies and heads, the most territying mouster it is possible to imagine. One body was rough, harry, immense, with a heavy neck friends with long heir, and bearing a great beny head with pointed ears, staring eyes, sporting nestrils and great vellow teeth. The other body rescalded that of the twobeyond belong but preparted from the targer body's back It beer two arms and a small round head with features somewhat like those of the men I had seen, but covered with dark fur, and with the skin, where it showed, a pe-culiar pixle. The mouster come rushing orwards and to my amazement the beings of the stare showed un four nor all they endeaves to the from the fun; and destruc-

"Had I not been of Sonko-Huara I should have sought swiftly in flight, though so swift was the pace of the thior that it would have been boreless. Even as it was I felt dread, yet I stood my ground, and was still more arraged to observe that the four-leaved things, even those not dash away in terror. On the contrary they ron snotping at the moaster who made no attempt to desires a halt and I stared, unable to credit my senses, for before any wondering eyes the monster separated into two portions. The smaller body with its head broke away from the other! It sprang to the ground, and to my utter amagement I discovered that it was a sergerate being, a creature with two legs, in form precisely like tinet oresture, a four-legged being sulfac anything I had neer. The two-learned being spoke in an unknown tomore and at his bidding the beings about fied to obey him They seized his four-legged companion, who seemed strangely docile for such a monster, and took him off: they led the two-logged being to a cubicle, and they harried to bring him food and drink. Here indeed was a strange happening. He sterred scorcely different from the others, he were similar coverines upon his head and bade and feet, and he appeared no name intelligent than

those who treated him like a superior beauge. "Way, I wounder, was he are personf'! I questioned one of the beings, who by now had come to regard zue a consecutive to the person of the superior beings, the superior beings, I was took, for he was white. Audient and the superior being, I was took, for he was white. Audient concerned with a superior being. I was took for he was white. Audient concerned with the white, but to my superior he made no repy and secured not to understand any words. I like the superior being the s

how different from Sonko-Huara where all sreak the

same tongue, where those attuned may converse by word-

less thoughts!

"That was my first meeting with a willer Sarriss Learning there were many of the reast not feel diseast, that they were even more marrison than those beings of the control of the control

The residual residual

"It represented with naming good, and hoppinally I good door stelling ower every feet in several. But I was no weary to run and the horolite, are received that so shows you may not all the horolite, are received that stated through my brind. How little had dated through my brind. How little had decisioned that there would be as many forms, such services contact upon Sauril. No weaker the heliugh But free had committed primitive, nettleb, for his decision beginning to the committee primitive, nettleb, for his decision by stickliftgoon, when such monators as that reaking on me were about."

"Thei I had the I word have adjaced my increasin, would have measure look jud desiringents and account which the information and the second probability of the second probability of the I found insight for more look of the second probability of the I found the second probability of the I found the second probability of the second probability of the I found the second probability of the second probability of the I found that I foun

"Rividually be was the transact's master. He held: I worked his control, just the other which had controlled Ad menture. I bentalted more frestly, remembering the Add menture. I bestable more frestly, remembering the state of the state of

weary; also that I had been terrified at his monster.

"For a moment he appeared puzzled, as if not understanding my newly acquired words. Then he gave west to those load believing noises, the Surrians employ to drottee intitle. At has the caused. He must some remarked which I know not the import, something about a dyneer fast. When he totaled whence I count, and when I told lim Souko-Gruza, he declared he had over heard of the place. Then he startle and amment me by asking if I would care to 'hap nin, 'menting, I found, would.' I come to someth the mounter, I drew bods, asking if the execute might not resent any presence, at which he made some believing sounds and his dish tumed carriangle.

"He assured me, however, that the moroter was harmtess and 'assie,' and with mispirings, but desiring to prove a Scelos-Huuran knows no ten, I mounted the creature's back. Judge of my utter bealthcrment when, as I did so, I discovered that the thing was no living creature but a marking!

"The real intent it was it making we were making account picture and though the motion was except and unglessate compared to that of our projection, yet 1 on-white a work of the motion of the motion

"SOON we reached the place of the whites. Here were many of the cult-cles, such as I had seen and in which fived browns. Between these we rushed on and specially came to more numerous and herver enhades. some of immense size, and with where everywhere. The machine stooped and I descended to the ground, as did the white being. I thanked him fatingly, and left him, but soon I regretted I had done so, for I found myself at a total loss as to how to proceed. Everything stemed confusion. Everyone was nucling about everywhere were the great mochines, such as the one in which I had come. Also I felt the need of nourishment, but I knew not where to seek austroance. During my life with the browns I had learned to cut as they did, and presently seeing a brown female seated beside such food, I drew near and asked for sustemnce. She demanded that I should pay for it. At the time I knew not her meaning and was about to move on, when I moticed a brown being ston beside the female and give into her hand some pieces of bright metal, whereenen she gave him food

"It was a strange and interesting brancotions. When could the sum with the neutral? Was it possible that the could the sum with the neutral? Was it possible that the stranger race and at automate food, or was sixe of some stranger race and appropriate the sum of the sum of summers and speculations. An adoption of the sumincrease and speculations are supported to the sumting of the sum of the sum of the sum of the Yet the fenitle appeared not no draw the neutal band deepped kines reconstituted our fulfield does. It was more fastinating, and at lost, as the appeared to be friendly. Ideas must and using this towns of the behavior. I said

I are in mar, and many use toughe of the teowin, I soled her what use she made of the metal, "She gazed at me in astonishment and then replied this abe purchased food with it. But she had feed, I remitted her. Yet did she iresist that the metal was used to secure food, which the gaze in exchange for more metal. prehamilité to mo, yet I formé dan in this muredons and prepositeurs manuer do all the Someins lite and that their whole livres are made up of thus seeprining bits or meant which they give onto others in exchange for food and other things, which in turn are given to others for "Those who have outling to give, give that there for "Those who have outling to give, give that there for the same hits of metal, yet the secret is of to set in them. It can be nother traction are drawn for even transformed.

into the coverings for their skins. Yet ever, escerially among the whoses, are all ceaselessly, throughout their lives striving, tailing, even fighting and killing one another, to acquire the hits of metal, and even him of names which cass ceaselessly from hand to hand. And yet I could not find that in the end there was any reason for it. Those who had acquired vast amounts of the metal and paper were no stronger, no healthier, no superior to those who had little. To be sure, they dwelt in larger exhicles, they moved about in the markings I have described and in machines of other sorts; they covered themselves with more colorful and voluminous artificial skins, but they deyoured the same food-the flesh of murdered, fourfooted beings, the embeyes of hirds and the plant emouths -that were devoured by those who had the least of the metal. And strangely enough, those who secured the most of the covered stuff were not by any means the most

advanced or intelligent. Often were they the lowest,

most backward and most stopid of all the Suarizons.

White others who were intelligent, who were advanced, who were in fact ecleacists and should have been boosted and followed, had little or none of the metal and

"Of course I did not learn all this while warehing the brown fengale with the food. Rother, my houses again chiming my attention, I soled her how it was possible to scenre the metal with which to obtain the food I craved, and she informed me I must exchange agmething I possessed for metal or must labor for it. As I stood there wondering what I might do to obtain food, the white being of the machine appeared, and seging me standing before the female, and perhaps realizing gay olight, he came forward and handed me a piece of metal. Thanking him, I gave it to the female who gasped, told me to eat my fill of her food and then returned to me more nieces of metal-together with some of paper-than I had given ber. This was the most astonishing thing of all; that she should refuse me food until I mave her the metal and then, when I had done so and had taken the food, she

"But not I found was the eartern of these strange abstracts of Sear." Of them certain period of main and administration of the control of main and the strange of great which are stranged of the strange of great with a strange of great stran

what money he had given for it. Yet always in the end

whatsoever had been then gained was again given out

strange queton, experially with the whites, they none may live unless they follow it, and I myself was soon obliged to do the same. I had namely to save for money and I kness nothing of Sperian labor. "For a time I was at a less, until by chance one day I saw a berny in an open space, with many beings of all colors about him. He was causing objects to disappear and to reoppear at his command and for so doing was being given the money. So, standing near and adjusting my instrument. I so organized it as to cause both the objects and the money before him to varish and to be aroun money benceforth nor of God, for with ease I could secase both by means of my device, which being beneath my coverings, attracted no notice, although great wonder agreene was barmed by my so deige, for the money that

for some other object. Yet so strongly found was this

the food and the food would have been given for the money, and by removing both, nothing was lost. Also the money was of need given forth for other things, such as for a cubicle in which to dwell, for he observetion and by questions I learned that it was a law of the whites that no being could sleep except in one of the structures. That was a most structure things also mite post understanding. I, or any being, might walk about in the open air throughout the night. I might seat myself and remain as long as I saw in but I could not remore settl along within the credines of the neet of structures save within one of them.

THERE were many other laws and rules and customs equally stronge, Though these belogs bothol-there being an abundance of water in Smeriyet save in the privacy of a tiny cubicle thry could not remove the artificial skins they called clothen in order to inths. Yet neither could they bothe in the corn air while thus covered. The thithes must be removed and others obsent over their skins before entering the water. And while there were large cools of water convenient to hand within the west, of buildings wherein the beings duelt, yet in these they could not bothe, but want on for a distance to certain waters afforted for the purpose. And though the coverings that they derived for the purpose of bathing were often beautiful, and revealed the most admirable partiens of the bodies, expecially of the females. net there were lyne coving that these coverious and less serve elsewhere, but must be discorded for others

"Also, it was held borbaric and even punishable, for a male to anyone not wholly exceed with the artificial sions they called clothing; the females, however, appeared to have a great deal more freedom in that regard. There were tearly other roles as facility as it reserved yet power did I find a being of intelligence who could explain the accustomed to yielding in all ways to strange nanners and conventions promulasted by others. Thus, while all are much the same in form, they do ever strive to dewine and recognized that one should differ from estables we has the decree of some one they must be all much the sazac. Also it was decreed that whereas the fernales might wear coverings of the most brilliant and beautiful bases.

the males rough mean election of dell and combine chades

"In their exhicles, or as they call these "houses," they do

tinct from all others wet in a way most all be able. And with all their boasted intelligence and culture-which is that of our ancestors of the times before our history beexpective percial in being unconfectable and unhealther by peschip together by thousands in these crowds of cubicles of every size. Often one will be erected upon another. Often they will be so small there is burely sense to move about. Often they are as dark and dismal as burrows in the earth, wer within them the beings live and no to yest tropple and labor and pine great sures in their money to be permitted to exist in such holes Though there is no limit to the open air and surshine, wer do they hide themselves owers in these woulds and metiny artificial suns of no value with which to have light And by some strange twist of their minds they will, at great trouble and labor and expense, bring bits of earth and plants and peretation within their elegions of houses. although on every side the land may be filled with count less thirty for more beautiful. Prop. wild birds than abound in the open air are held prisoners within these dwelling-places, and yet, at every occasion, the beings rush forth, and afoot or in their machines; leave the grouns of huddones they call Wities' and in great through fare into the outlying country for a day or a work or dwell beguly and free and much conter and better in separate nests amid the verdure and sambline, which we of Soulo-Huara would give so much to have in such constition as they exist on Spari

the same. Fach being will strive to make his home dis-

"Why these beings should thus suffer I could never bearn fully, but in a way it is due to fear, for fear is ever clutching at the hearts and minds of the Suzrizos. In the past, energies were feared, and for protection the brings herded together and built about walls and dwellings casy to protect. But now, though at times there are quarrels and even wars among the belons of Souri, the clusters of buildings are not receipt, and in case of war would be of no avail. Yet the fear of being alone still abides in these beings, and fear of one kind or of another does them always. He who has living from he man never have more. He who has much force he more have what he has. He who is in rocal health fears illness and he who is ill fears he may never be in good health. No one is content; no one is softsfield and nearly all fear death. Yet do they torrot cleath scores of times each day. They plery in taking risks of health, of loss of life, of everything

"Why they should fear death is still a revetery to our They profess to believe as do we of Spring-Hoors that the spirit never does but merely departs from the back to enother state. Some believe as do we that it finds a place in another body; others believe that it goes to anand trhem mires rule for in Suari there are endless beliefs, faiths and religious instead of one suiversal relivion as with us. Yet denoite this belief that death brines to the spirit a better life and that there is outline to fear. extreme measures to preserve life. Even the imbedies. the hopelessly injured and the crippled are preserved, instend of bring marrifully disposed of as is one outper And their dactors will out their hodies or their limbs into hits and will love them crippled or behiles, for the rest of their fives, merely to save them from death. It is not the fear of usin, for they endure a hundred times the arous of death in order to avoid death. Mainly, I though it is both of faith in what they bold is their faith. There are never entire aure that their religion is the right one, that their spirits will be better off, which proves how much better it is to have but one faith for all, as do we of Senko-Huara. And yet, in suite of their dread of death for themselves, they regard the deaths of others quite athenia The arthenia destan december of desir fellows in a war over some petry trifles or to satisfy the muchinations of some men who avarationally desire to add to their power or their wealth. And they do not heaftate to not their fellows to death for the violation of certain lases which they themselves cooks. Through they thou constitute thereselves the indexs of their fellows and claim the right to take that, which they carmot give and cannot restore, yet on the other hand, they will not necmit one of the number to take his own life, when he desires death for any reason.

"A ND while they see fit to meddle in many, in fact, most affairs of their fellows, and to subject themselves to incurrecable ridiculous rules and regulations of no importance to thouselves or to any one else, we then awaid requisting and controlling the most important of all things, the births of their offcoring and their receive "Unike our young that are incubered artificially and under scientific rules, the offspring of the Suarians are here alive and each mother scars her own. Unfo expents are not only allowed to mate and to produce acree, instead of limiting the reproduction of the race to scientifically askerted currents, neither of whose is aware of the other's identity as with us, but they are permitted to year their own mitherotten to maturity. As a result, there is no steady wooding cert of the mentally and obsolealty you fit, nor a gradual innerconnect of the utule race. Moreover, the routy, weak, imbecile, cricaled and otherwise imperfect offspring are not only permitted to live, but are serbolously earned for, and curry offert in made to been them alive in spite of nature. "As a result of this, no two are alike mentally, check-

only or in training, yet, when these stronge beings educace their infinitely varying offspring, they are treated as if all serre identical, as if all, like our own, had been selectifically and artificially produced, incuteted and reared. Three is no attenue to source and train the young according to their actitude or their spitability for certain careers. There is no such them as savine this young being has peculiarities to warrant his becoming a mechanic; this one should be an artist, and then remfaring their education and training with that end in view, No all are not through the same craces of studies and the ultimate career of each is left to the parents or to the immature being's choice. In this, as in nearly all vital matters concerning these incorrect while in factor Supplement there is no system, no certainty; everything is left to chance.

numer, young Stuntin, who declar to become a scious is say became a pool selected and be may be a failure, it is a question of obsacted indexed of being perferentially searching analysis of his mentally, he physically, is longing and every other factor. Yet in nearly every other respect these beings are mercused, buried, overwhelmed with these. Numbers of beings are conseleasly likelying the metallic perfect of the control of the second of the se

many of these second the most surrescensive and needless of all. No being may take that which belongs to another, even though he he starring and the other has more food than he can use; even though he has perfiling and the other has much; even though he takes that which more than he needs from some other. If a below travepresses this low he is set apart in a cohicle by himself. and is given abundance of food and is carrol for, so that by his projekment he is remarked with that which he sought to obtain. Yet he could not be thus hensed and fed and provided for otherwise than by violating the law. But the being from whom the possessions have been taken receives nothing in return, nor is be who is set aport forced to return that which he took. And neither may the being who has been thus rebbed of what was his law baseds upon him who took it, nor take from him queby in return. So it would some that the violator of the law is a being take the fife of another being no matter what provocation he may have, for if he does, then the law may take his life. Even though the one whose life is taken by the being who has been wroused is of the most inferior claus and of no value to the community, whereas the being wronged is of the blattest and most legelbrens. yet the law demands that the valuable life be sucrificed. Yet may those who are favored, take lives as they may and enfler nothing "Access these beings there are certain ones whose daty in to see that the laws are not broken, we often they are

meny have been made in the past and so many are being

made each day, that not even those who make them can

remember them. For that reason they are preserved in

massive arriverses. And if those who make the laws are

ignorant of them, it is natural that the other beings, who

have no knowledge of what laws have been made, about

be quite unaware of them. As a result, everyone is con-

matter, for apparently most of the laws are made to no number. Yet there are certain laws that may not be

broken with immunity save by certain favored beings and

is to see that the law one can be holes, yet often they are therether in law end person at a law as in the most in-law the treatment of the control of the c

In the marriage also, which is the mutting of the maleand the features of these strongs being, all it governed by chance in the same manare. Nother science sor laws enters into the beings choosing them mans, but were the beings choosing them made. They should they do not be the being choosing the strong the contraction of the other comments. The should be the deep the contraction of the contraction of the beam iff them, denies to find other assess, they may not to an subharent breaking a low and being mainful discreder. We starteget of all precises, it as the with ofclours of the contraction of certain lightly of which are the contraction of the contraction of the startegy of the contraction of the contraction of the same proposes of Survariant of the chart, and of all the same proposes of Survariant of the chart, and of all the laws this is the most often violated. Indeed, few beings there are who do not violate this strange has that courtols the brines' own storrochs, and in so violating the low, they support to usin much delight and niewere. Though you may find it hard to believe, yet they will go to great trouble and expend many pieces of metal in order to violate this law, not so much that they are destrous of imbibing the prescribed liquids, but to show their deriston of a law which they cannot to be made.

"For a long time after I had been fixing among the whites I marveled greatly at these beings remaining so primitive as to need laws which we of Souko-Henra shoudened pors are as worthless things and as tending only to corrupt the morals of officials. But most of all I marveled that, having paid beings to make the laws, and laboring to obtain the metal wherewith to pay others for enforcing them, they should desire to break them at every turn and should find delight in so doing. But having learned more of the whites' ways, and having som their amusements. I wondered no more, for I then saw clearly that each laws were made to provide a source of agrupement, or as they call it in their tongen a 'sport,' sometimes.

Certain Traits Are Universal EFORE speaking of these amusements of the

Susrans, I must tell you semething of shair strange characters and habits. Though they are so filled with concrit that they imagine themselves the superiors of all other races, even the superiors of all beings in the universe, and though they beast that they rule Sunri, yet do their females rule them, and the strongest submit to the mile of weak, illiterate, unintelligent beings. Still, in a way, the whitea do role Souri, for so loudy do they cry out to all that they are the livels of their planet, that the others are made to believe it to be the trith and so submit to their wills. And though due. ing may stay on Smari I lived for most of the time amidst these whites and mingled with all kinds, set never could I learn why they should be so equited in their

opinions of themselves. "Of all the inhabitants of Souri, they are the most superficial, the most truficial, the most inconsequential, the most illorical and naradoxical. They are as aimiess in hordes of ants they scurry about, reshing made to save a minute of time, yet in the mints of this wild bustle they will stop and stare for hours upon some simple childish thing. Their lives are one ossueless round of toil, for so of one another that they must toil to live. But even when by toil they have enthered orone of the moral discs than they can use in their lives, yet do they continue to toll. out for a rest, for a chance to live withour these suffere Yet when they cease for a space to labor, they entertain thorselves by triling Even when, weary with the labor of day, they have a chance to rest, they spend the night resting about, each male with a female, in overst crowds. running and prancing over a floor, though they do not

pool of toil, they will burry and cout for event distances

in the hottest sun, leboring to strike a small elobule with

a grooked stick, or perchance with their feet kirking an object about and fighting amongst themselves, or trying to outnote the boll. Always they are laboring. even lighting an octile semething, even if by so doing nothing is gained. They strive and labor to outdo one another, and each took to win more of the metal diseathan the others, and they take error soy in watching two of their fellows struggle and fight with their hands until metal discs and buts of paper they prize so orgatly. "To these beings of Searl nothing seems to afford so

much pleasure and interest as for some one of them to centio some other one, yet it is a foolish and ridiculous thing, for always, as fast as one outdoes another, so, surely, another will outdo that one. They even force the four-footed beings to strive to ondo one another, and because these beings are more intelligent and are superior to the others, and will not waste their strength by foolishly laboring to surpass one another, the twolexced beings mount upon their backs and beat and force them to do their birding

Often times too, these Sentines will remain for many hours seated at tables and peasing hits of colored paper from hand to hand, and going without needed rest and siero in a mad attempt to ourdo one another in securing certain of the bits of soner. Many other strange ways do they have of occupying themselves, yet one of the stromest is that they will flork in creat herds some costsion cubicles of large site, and will give up stores of the metal discs to gue at certain of their follows, both males and females, who standing upon a platform, do and my exactly the same things that these beings do such day. Morrover, when these beings cannot see their fellows thus repeating their actions and their words, they will flocic to other places wherein are pictures of beings doing the same things. These pictures were at first a great puzzle to me, for I thought that they were reality and were His unto our vision-disseminators, for they both moved and spoke. But soon I found thry were accomplished by means of machines, and though eleverly managed, were not real but merely images that were made to appear at will. Very often both the beings who appear upon the platforms, as well as the pictured beings, do and say things that are in violation of the laws, whereas those who watch show event pleasure and show aloud and strike their hands together in delicht, for so illorical are they that through they may make hwa and may purish those who transgross them, yet ever are they overjoyed to see the laws broken. Yet in this are they no more illorical

many discs to be delighted and made happy, they will give an equal number to be made and, and of their own will they will gaze upon sights or will harken to some and because of these will seren and will find low in wwening, which led me to feel at times that these strange beings are all imbeciles "Yet they do most amoning things and perform feats that we of Sooks-Huara carnot coust. They can project their voices and all other sounds for vost distances through the air and it was these that we heard here in

than in many other ways. Thus while they will give

Souko-Huara, as I semmised), this being done by some means akin to the manner in which I transported myseli to Sunri and back. By devices which I do not fully comprehend even yet, the beings after the sounds to electronic forces, by a reversal of the process transform the forces into sounds, just as I may change a solid body into free electrons, and then may reform the free electrons to reproduce the original body.

"And though they have never learned the secrets of our vision-disseminators and audio-extensors nor of from spot to spot and may bear the voices and see the forms of others at great distances, and though they have not yet learned to draw all power, all sustenance and all that is needed for life directly from the sunshine and the atmosphere, yet they have devices that serve many perposes and that are unknown to us. Perchance, by the time their planet has been exhausted, as has Sorlen-Hears, and the Sparians have by necessity been forced to develop their intelligences and have cast saids the foolish and inconsequential things, and have learned that uniformity of purpose, thought and act is essential to existence, they may reach to a plane comparable to ours at this time. I have already told you of the strange muchines that rush over the earth and by means of which they move from place to place. In addition, they have other great machines that can move only upon metal rods

hid upon the carth, and they passess immerse projectorlike devices that fly through the air.

"Unlike our projectors that may remain poised at any height and which are operated by the atomic power, these draw their power from faul hurned within them, and if he channe the final is exhausted or if any active

of the mechanism goes wrong, they crash to the ground and are destroyed. T is written in our histories that our encestors, some thousand Chelcitis in the past, used similar means for traveling, and so it is possible that a thousand Chakitis hence the Susrians may learn to make projectors. But Smri, being so much greater than Souke-Huara and hence with greater hody-attraction, presents problems that we of Soriko-Huara do not face. Thus upon Suari there are, as all know, great bodies of water, and to cross these and to go from place to place separated by them, the beings use immense machines, corrying wast numbers of Suarians, that move swiftly upon the surface of the water and do not sink within it even though they are made of metal heavier than the water. This to as of Sonko-Huara seems more worsignful them would our reojectors or our vision-disseminators to the Starians, for we, having no great masses of water, and no need to cross such, know little of such matters, and in all things pertaining to water, the beings of Supri are in advance of us. Yet could I, even with my ignorance of such things, soo plainly that in all these matters to in everything else the Searians wests far more thon they use, and do meny things for the benefit of their own pride and pleasure rather than for the benefit of the race and posterity as a whole. Thus the structures in which they dwell and which, clustered together, form those spots that we of Scoko-Huara long ago recognized as made by intelligent beings, are often made of vast size and beauty, towering unto the skies, whereas for the purposes of the beings' lives and labors no beauty is required, and cubicles of no greater height than would accommodate the boings would serve as well. For that matter, such small structures, senerately placed, would serve better, and with the sunshine and the air would

greatly preserve the health of the dwellers within. Ver

in their self-oride and glory the beings will erect the

great structures and will nest them together by thousands.

thus sbutting off the sunshine and air and rendering their dwelling pieces as durir and neiscore as coverns in the earth. And the material that is needed to make such great structures would serve to make many thousand smaller cubicles for those beings who have not enough of the metal dises to obtain shelter. On the other hand, an commercial are the minds of these beings, so fixed on matters that result only in gain to themselves, so selfish in their attitude, that science is regarded with little respect and often with scorn. And those beings who have amassed great quantities of the metal they crave will give freely of what they have for such pleasures as then desire, but will bestow some upon those beings who delve in the mysteries of science and who devote their lives to the betterment of others hy studies and by writings. There are some few who will bestow their discs in this way, else all the Suarian scientists and those of great intelligence would succumb "Yet even the scientists are ever filled with the conceit

that possesses the two-legged inhabitants of Suari, and most of all, the whites.

"Though they possess means of studying the planets, and have devoted much time to studying our own Souke-

Huara, yet they know nothing in regard to them. Those signals that we of Sonko-Huara arranged to draw their eyes and to let them know that our planet was inhabited were such by those on Suari, yet they deemed them not signals-feeling assured no beings more intelligent than themselves could dwell here—that our signals were ber natural formations. And then to apprize whatever heings might dwell on Sonko-Hears that more intelligent brings inhabited Suari, they caused great numbers of Eights to be placed at picht-subjeb we cass-mentionless things carrying so message. And having reprected their voices into space and having received no response (for they studied to failed to acrange for regime and even failed to let us know they were striving to communicate with us) they decided that there were no intelligent beings. "So conceited are they and so filled with their own importance and the belief that they are looks not only of Smeri but of all the Universe, that they cannot conecive of any other form of intelligent beings. To them the deregges of Sonko-Huara or of any planer more be He themselves-with but two less and two arms, the same bodies, houls and features-or, in the minds of some few, perchance like certain four or six-legged creatures of Swari

"And nothing can convince them of the contrary, nor can they be correspond that an inhabitant of Soulin-Husen could do what they cannot and visit another planet as I have done. For a long time after my arrival moon Scari I said nothing of who I was or whence I came. thinking it better to learn their ways and all regarding them, by mingling with them as one of their own kind And when, after having talked with their scientists and those credited with being the most intelligent, I learned how wast was their lenorance of Sonko-Huura, I smarkt to set them right, none would listen to my words. In rain did I endmant to tell them of the true facts of how we of Sonko-Huara lived, of the customs and our ways, of how we obtained our power and our sustenance. of how our race was propagated and ever improved by science, and of how those strange marks, which they had thought were carely, were but the tracks south he our small areas of water as they were dramved across the surface of our planet by our two small satellites,

(Continued on page 371)

Driving Power

By Miles J. Breuer, M.D.

Author of "The Mess with the Strange Head," "The Gostak Distins the Doshes," Etc.

NOP that the fermly established Bake planetary atom series to have necyour blittle of the Schridsinger was stam, who can spikelishely what next the
partificities of intro-atomic power? Percending writers of circuitie fellics must
need to technic imposantation there also not quickly fell their stretie, for free
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Illustrated by WESSO

Science and Living

"HEN Professor Grimss laid down his

work and decided to go home, be

cleanpail into a different man. It was then a transformation from Dr. Jelyll into Mr. Hyder. Time to quit," he sighed with regret at laving to part with his apparatus. He picked up nome peeces again, fitted them into the light machine, lingered awithe, and again one formed recommendation.

All does while he meeted in that betweeness he was home elect full of embusiness. His nearly drove burder cour shorts and about, leaving them convered with colcufectors too abstrace for endingry mortals; his fingers and eyes searched busily among the leaves of his library; but especially, most of the time he havered swiftly, skilfully, devotedly all around and among that vast and complex stack of apparatus in one end of the bir room. He had as worth energy on the house waterfull whose year could just be beard through the wirefews and which some olied him with inexhaustable power for his experimental work in intra-otomic physics. His eyes shone brightly. and you could see that he thoroughly loved the work, Then came quitting time. A vacant, discouraged exforce. You would have thouse he had nothing size in the world to live for. He drooped like a lover driven from the side of his fair lady out into the wilderness. Perhans you think he was one of those dry. lifeless scientists who care for nothing, know of nothing except archaequityps of effipsing variables. The carriers hurge of las detables, his unlabours face, his shoot-minded behavior, might hove conferenced the flow that he was as Bell Perfection Cristian was not back to the same bell perfection. But I review of Cristian was not bank days. There is examine to be a good deal of remainess left in his make-up. Other-these, why did a visifial lock own over his lace, and why did his stress lace plants have been possed the motion-picture where the critical greatest ferm some famous lower than the contraction of the contractio

why of this active his palent he pented the motive-primary when the pented the motive-primary of the third pented the pented that he was proved a period or the till motive pented to the pented the pented to the hear in dualet and work a period or one are and an excessing a big wide the pented to the pented to

He reached here dejected and fried. His hume was a bright respondence of roccurs, in ore of which religned as phisning dimer-shale. His wife appeared, a glerieux, tripping vision, effeicious to book 31, a communitation of the communitation

"Horry, dear" said the tinking, silver-bell voice, "Guesta will scon be here,"



was a cold and distant timble, and the tone of it said to him, if the words did not, that he was late again and that his appearance was not presentable for the distinguished social esptures that were expected. Thus it was every evening; often the impatience at his tired agreesance was hardly concealed. Some evenings he would appear among them; at others he would not. It did not seem to matter; he wasn't noticed much, providing he didn't get in the way. The parety always hoted till late; and he would leave the guests and go to bed early, because he had work to do in the morning. His wife would sleep till noon, and he would never see har wrill the next evening dressed for another function. The occasional on-

showing him off to her society audience up those markines," she complained. "You never want to go out with me." If he had not been a Professor, accustomed to shaping

intangible ideas for practical use, he might have externed that her social nonsense was keeping her away from him; that his work was the thise of real importance. But he was a man of policy; peace at any price, since war

could never hope to gain anything, anyway, "I have a serious problem on," he would explain, "If

Silver tinkle, indeed, thought Professor Grimm. It

occupied by her intense social architions and a poetling irrentience at the work which held him and kent her from "I'll come over to the University some day and break

it weeks out, it will brine in money." AUTHOR'S FROMWORE: The technical aspects of Professor Grimm's work involve the most difficult and complex conaderations of modern intrastronic obvier. To include them in the text of this story, with which they have nothing

Eddination's writings on the state of matter within a hor other (Store and Access, A. S. Eddington, Yale University Press, 1927). There, matter is very doug and exists only in its samplest forms. There, atoms are not complete for very long at a time, for the vant volumes of short electromarmeric robessess (X-rays) are constantly displacing the electrons in the outer orbits (see Boby's policies in the Philoassiste Masurene for July, September, and November, 1913). But these displaced electrons are free only for a short time. ever, they are again quickly displaced by X-rays, and so on.

It occurred to Professor Grines that if Years could be generated in the laboratory in sufficient density, and allowed to evert their effect on matter which was less dense than that in the interior of a star, the free electrons would get far that they would remain free. Then, as successive electrons were displaced from the atom, the character of the atom would thange, and the change would be recominable in the

laboratory by physical and chemical methyla As a matter of fact, this is actually what occurs in a Coolidge tothe (see page 122, Within the Atass, John Mills, Van Nostrand, 1923), and it tenounts to nothing else than the transmitten of one element into another. The icentation of matter by X-rays has been descendrated with eraphic vividness by C. T. R. Wilson, who shaws photographs of (see page 102 of Mills' Within the Alana). Professor Green

That made her barrow. Money was needed for beau-Professor Grimm had no wife. That was the way be fult about it. No companion to share his life's uroblens, ambitions, pleasures. He felt rather like an elephant quartered in a butterfly's liouse. That is why movie love or the sight of real lovers made him melan-

tiful clothes and for social climbing

He thrue to his work with the tenacity of the absentminded professor in stories. His researches in the ioniaction of solid bedies, his concrete realization of perfect gases with high density-these had to be his wife and They took the place of the romance that he missed For, does in his secret heart, concealed under that dry,

absent-minded exterior, he was intensely, boyishly remantic. Fairy princesses and adventures in distant lands occupied his import thoughts. Outwardly he consoled himself with work. "People that are too happy," he reflected, "never make

such real progress. Happiness has a tendency to remain satisfied where it is. Perhaps that is why I have gotten so much further than many of my colleagues who are older than I. Perhans if I were as barry as Protoner-going away on another trip with his wife; they've away look in his eyes, followed by a shrup of resignation. "If I were like that, I should never have worked out the Integrator."

He contented himself with the thought that it is a fine.

was fascinated by the possibility of making definite physical and chemical charges in matter by this method and this was the modest beginning of his accountional achievement. supplied the first actual experimental verification of Bohn's energy is lost by the electrons revolving in the outermost the benefit of the screenific reader. I append the following orbits and as the orbits decrease in size, the nature of the abstract that I have made from Professor Griggs's notations atom changes, and therefore, the nature of the matter which it compares undergoes chemical transautation

He received his original idea for this work from some of Thus, if a carbon storn with twelve revolving electrons loses one quantum of energy (liberated as X-rays and registered and measured with the crystal gratings and X-ray spectra of H. G. I. Moseley and deBroglie) and one of the electrons falls into the nucleus, it contains but eleven envolving electrons, and becomes an atom of boron. process which in Nature requires ages of time; Professor Grines hastened it experimentally. But his prost princersh was its revenal; the addition of a quantum of energy to the aton, and the addition of a revolving electron. For our reason he had the advantage in this work over

any physicist in the world; he had at his disposal practically unfinited power. The hope waterfull was surrounded by University. Liebring and power for the engages utilized but an instructional uncortion of its overry; a million horsepower was available for experimental work. With this and his three banks of six-foot Coolidge tobes. Professor Grisso was able to generate X-rays which would compare in volume and intensity for experimental work, with the X-rays in hot stars. With a tabe modeler after that which succeeded in abstracting electrons from atoms, and in adding electrons to atoms. The principle is simple: if an atom receives the increment of an electron, it radiates one quanters of energy (X-rays); and vice tyrus, if a quantum of energy

is shot into the appeale system, the increase throws off one

electron. For making any element out of any other element, it received merely a standardination of gearfitative technic

The Invention N the morning he came into the laboratory, divested

scientific work.

himself of the outer world with a sigh at its emptiness, and stood in front of the Integrator, ready to plange into the jey of another day's work.

What was this Integrator, which occupied the Professor's days until he gradged time from it for his classes; which occurred his thoughts at night, his lentures, his private conversation? What was this aston-

ishing thing. before which its own recotor stood in own scarcely able to believe the work of his hands? This morning he was testing it out again. A number of times he had made tests to confirm the accuracy of his

"testern" emptions, but thus for he had always witnessed its agracing performance alone. While the horse generators were starting up and the glowing platinum targets were warming, he say at his desk and worked his slide. rule and lotted down figures. Then, with his eye on a stop-watch that showed fifths of a second, he moved switches and pressed keys. There, in the middle of the

room, the air swirled in a spiral and became nebulous. The cloud condensed, and there lay a sohero-or a brick, or a bar; of gold or clay or invers or of files or letter This marging he was practicing on more complex

things. He speat more time with his peacil and slide-

by substituting different values for the terms of his equation and setting his experimental quantities in accord with the resulting "pentern." A lold effort resulted in a scampering lattle mockey, which darted chatteringly about the lair more, until Professor Grimm shut off the power, whereupon the muskey melted away and disanneared. He traed another combination, and there appeared a Sittle machine, working bustly away; and when he shat off the power it melted, dimmed, and was rome. with a rush of air out of the windows and an electrification of exercitive in the mon with the dispressed charges.

That sounds like some tale of sorrery out of the Middle Ages! Or like the words of some writer who has more inserination then scientific training. Yet it is physics, very accurate, very matter-of-fact, and withal

very dry for the non-scientific reader. For the benefit of the latter, I am making a brief review of the process, which is described technically in in the seneration of large volumes of short-wave X-rays than any man of his time. That was what become of the tremendous power of the huge waterfall, the power that went into his laboratory.

Short-wave X-rays, as is well known, distrince electreas from the outer erists of wandering electrons, say of rows, leaving an amonturated atom with an intense avidity to combine.

Arrana's Footworn: That is the fendamental ericolate of the Integrator. But, there is self more to it Possilly the case with which rold or other valuable metals could be thus made would have been the first thing to appeal to the average worker. But Professor Grieses passed that he with hardy a thought, with his eye set on the more theillien-

The idea of a unity of evolutionary procures is syndrolly being built up. The concention seems to be too her for some of our scitmille men, but they will have to grew up to it now. The laborious prescriptions of such men as Horabathat evolution, instead of being something peculiarly limited to ormatic life, is in reality one configures and identically realignm process from the dissociated item in a hot stay to

the gray matter of a college professor-this idea ared no Grissm started with the bold sdes that life adds publicacorestially different, when it steps rato the prolationary scale; not even qualitatively different. The appearance of life in the evolutionary scale, which matter andersoes, in not an abrupt break, not a radical change, any sapre than the appearance of the earton chain or the carbon ring denotes a radically deferred kind of observery from that of the other elements. Life is but a property of molecules of a certain complexity and certain arrangement; when this complexity and arrangement appears in the crelationary aprics, life is account. The old idea that life or its porms must

have come from somewhere belongs in the maseum with phicriston and the indivisible store. So, with his modification of the Million tribe and has cataracts of short-wire electromagnetic witerstons, Grienes took the molecules of enclosed air, added two electrons to the earlies arom to make sitrogen; removed a common electron between two atoms and condensed them to molecules; built up a protein molecule; removed common electrons by the hundred between molecules and built on constituent compounds. The removal of the "common electron" was

molecule of water from two molecules of editel alcohol with By pouring electromagnetic energy into the electronic orlitts, he produced an infinite speeding no of material evelption. His product was evotoelsons

Nor did he suo there with his stimulation of evolution. By continuing the supply of electrogrammetic energy, he speeded up the evolution of his organic mass-still the same coentially qualitative process which had halft on his inequ He carried it on up to consilex living belows

Possibly the syrighty achievement of this evolus, whose school the coastitueive technic of this process to mathe-He took Planck's simple quantum relationship;

$$y(\lambda) = \frac{8nch}{\sqrt{\frac{ch}{ch}}}$$

and built it up as functions of his spark-rap distance and millianzerage, so that he could produce any lond of changes he desired in the evolution of any kind of syster, backwards

He named his equations "electron patterns"; and after they were complete, he devised further experiments to test them. In the course of these experiments to check and

verify the "electron pattern" countions, the Integrator came into being. It was the enveriencetal assurator which worked in the large room as its conferentian-field and which was able to intensify the processes of increasic organic evolution to such a degree that a recie from dissociate elegrons to organic hie could take place in a small reguler of seconds in

large masses of matter.

With his broad streems of short waves, Grimm had a hitherto unparalleled opportunity to observe the behavior of these unsaturated atoms. His wast musbers of ions condensed; his gases were turned into solids of differing composition. He worked with air in his early experiments, and when he got through he had masses of marble; marble ambably, because the marrie cloud consists chiefly of colemn,"

Thus far the idea is simple enough, though technically difficult. It was the first step to the Integration. His block of marble was shapeless. Could be needstermine what shape it was to assume? Could be determine on

semething other than murble? Could be make a complex From that to the finished Interrutor is a long story;

the relations of the components of a complex body and of the hombardment of free atoms by shurt-wave X-cava: the ability to pick off one electron from a nitrogon atom, or two or three, and of selecting free atoms to attack with the short wares-it is tedous and mathematical staff. Curious indeed were the bodies he built up by incident six with its rection. Simile and water, some rearranging and condensate sons; fantastic blobs of stuff that twisted and writhed and then chanced on to some-

thing else. Is it any wender that the long and shrilling work absorbed him internely? Yet, how could any man endure that nerve-racking concentration unless he had been of despair? However, the achievement was worth it. He gasped when he thought of what that mor of short-

wave tubes could do for him. For now, since he worked out the proton basis and the electron patterns, he had an automatic cantrol of wave-length and radiation density, and was beginning to learn to make what he olessed out of his condensed ions. It was merely a matter of gutting the pattern right to start with. The object would then develop itself.

dependence only on a sufficient account of energy. That evening he walked home in a daze even missed the spectacle of here and there a man with a lady interestely beside him. An idea had suddenly struck bim! An idea that stunned him with its force? It was an idea of what the Integrator could do for

him, and was even greater than the idea of the Interestor itself. He looked out on the may world that had so disappointed him, and his heart leaped wildly with anticipation. Now he would have happiness. A keen brain and hard work can prind happiness even out of this bleak

His wife was all rendy to start to a theater-party. her beautiful rown and sweet wrice making her seem distant like a lasty in a story. No, he did not want to go along. He never did want to go along and he displayed, bert bouisht he wasn't even in the same world. His wife went on to the theater-party, and he, with brad throbbing and heart racing with excitement, went buck to

the laboratory. He had elected the vast, auditorism-like room; and the Integrator stood assembled at one end of it. All else was yest areas of here foor, well, and ceiling opened all the windows wide; he would need to draw on the atmosphere for large quantities of matter. And he sat down at the nattern-board of the machine

persits come out as milliomperes and spark-our lengths and he manipulated the switches and rhecotate. There First, swirling nebulae. The vague shapes took form in the depths of the tog. They rolled like clouds of smake and changed. Soon he could see trees. Soft, rich, green grass in their shade; flowers and birds in their fragment depths. A sheltered dell, a nicturescue cottage, and through its windows, plientees of a bril-

to front of him grew his droom.

Bant, lexurious room, with draperies, lamps, and a And last, and prostest of all, a beautiful women!

About an hour of exiculation was necessary; nead-

stide-rule, and book of integrals were kept busy. His

She materialized in the doorway, with a melting smile and a simple man of soft silk; the waited for him as he set the machinery to continue running, and wallerd into the picture.

"Are you real?" It sounded faolish, but he couldn't helt miester it. "Real, and mailing for you," She held out both hands

They sat toreiber on a divan. She was real. Her bands were soft, but there was a firmness in her handshale that he filed. He touched her shoulder and her

head. They were real. She smaled at it. "Do you believe I'm here now?" she asked "What is your name?" was his breathless reply.

"It's good. Sounds just like I feel." She brought him lemonade. He wished he were more

carefully dressed, for she around interested in him: her eves were always on him. She was intelligent and talked well. They talked a good deal in the preliminary peocess of getting acquainted. She was cheerful, and had a good sense of brance, and made him feel rested. The evening passed, and he forgot; forgot problems and troubles, and the gray world. When a man can fernet, he is broom. Professor Grimm had rarely been

"I shall see you again," they both said when he took Before shruting off the power, he checked his patterns most carefully. He was satisfied with her and with enveything in the nicture just as it was. Beforehand he had not been sure just how it world come out. Now

be was arrises that a repetition should be accurate Then he shut off the generators gradually, one after snother. There was a dissmine and a thinning of the scene of paradise before him. (He had a vague, fleeting feeling, that was gone in a moment, that he was killing, annihilating somebody. But he reassured himself that he could reproduce it all tomorrow.) It faded and was once. Only the hore room was left. was a more entry scree of pressure in the room as the disintegrating molecules expanded, and before the windows released the excess of atmospheric density. more was here, just blue the world. He went home through the late night, his nerves in a date of fatigue from his unusual experience; but it was a welcome

The next day seemed endless to the Professor, A blaze of bronze hair and the softest of round arms would not go out of his mind. Even when he was busines, he could bear in the background the low,

"I shall see you again?"

That evening he dressed encefully and came out as survice as one of his students. Back in the laboratory he sat by his patterns and switches. The scene before him rose again, the idyllic forest cettage, the lovely Amaranth at the door. Everything was countly the

same. The netterns were accorate This time the carer pressure of her hand made his heart lean. Her eyes rested admiringly on his natty figure. Dry, scientific man, ch? If so, why should the fimid hand resting on his sleeve thrill him so intensely?

She brought him a grape drink this time, and cookies. and a custion on the divan. She song a filting song at the pione. Professor Grimm was happy and the world was no longer error."

The Adventure

And so, the "electron-patterns" were set many times, and much power was used from the waterfall. The Professor, after a hard day's work would take a perfunctory turn at home, and then burry to the paradise waiting for him. There were long hours of sweet companionship, wonderful communions of perfect understandings in all fields of thought, lovely arms about his neck, and a some in his heart like the remie of the selecres.

He was a changed man. His friends noted it. Even his wife noted it. "Is the work coing well?" she asked, "You look jeitler than you used to."

"Another invention," he evaded, "If I can sell it to some corporation like the Assalgamated Amusements, there ought to be a million dollars in it for so. Come

and see it." A million dollars sounded good and she came. He made flowers, decises, automobiles spring out of poth-

inrness before her eyes. But the wander of it was not as creat as the million dollars. His students talked him over between circurston. "Grimm's getting cheerful. Remember how he used

to en around with a load of closm? Loaks like a "They are he used to have trouble with his wife, Maybe they've fixed it un."

"Well, he's sure been easier with the red link lately, His course used to be the only one that more me new year's He grew popular with the students. He was excellent company in faculty gatherings. His friends were grati-

fied and delighted at the transformation. Some of them had felt sorry for him, in view of the pace his wife led bim and of his intense concentration on his work. Now

"Market", Det Nier. Select I get annuel en verligt og die eine ell spiller bestellt i de einem jende over det entretels blank I det spiller bestellt i de einem jende over det entretels blank I det over greenligt in bestellt spiller. Det blank i de nomme de skrivere en de Stemmers de spiller. Det blank i de nomme de skrivere en de Stemmers de spiller. Det de skrivere de de skrivere de skrivere de skrivere de skrivere de skrivere de de skrivere de skrivere de skrivere de skrivere de skrivere de skrivere de destate de skrivere de skrivere de skrivere de skrivere de skrivere de destate de skrivere de skrivere de skrivere de skrivere de skrivere de destate de skrivere de skrivere de skrivere de skrivere de skrivere de search.

It presently, the presently of Against's has eathing to do with the start filled of the stary of Federate Green's exacts for hope of the presently is not expected in a realizable of the primarily is one expected in a realizable of what contrasts pointed by the confirmation of what contrasts pointed in the lapparate.

It is a supplementation of the contrast of the contras

Someone was at his laboratory door, and was shaking it. Was it locked or not? A fash of fear shot through bin. He did not want to be caught thus. (Continued on poor 323)

She must have been passessed of a regular and symmetrical of facilities and a make passent vector. See must be a superior of the passent vector. See must work has been advanced in the transfer conventional large but of the make the passes of the rest. Otherwise Taxings and other has give but a record but to be one bot.

would never this pile some research to the very interestly high continue of the reverse. Me had credited it all the hart are researched by it as per paid at the last are researched by its appropriate to the order of the research of the re

her bronze bair, her melting smile, her devotion to him. Or rather, he almost forgot, for there in the barleground there was some sort of throbbing, pounding, The pecualing kept up. It seemed to come from another world

and started the generators. Things were all wrone. He was morose and enabled. He couldn't stoud it he had to see her again. In her arms, there in the depths of the forest, his soul became quiet again. Again he forgot all but her-

several days during which he never touched his "patterns." The Decision MNALLY, one evening he came into his laboratory

these things by roundshout paths. He sighed. For a moment the world all seemed gray arrive "It must be that progress and content do not go to rether," he mused. "Harry men never do ble stuff." He brooded and remained state in melancholy for

"Grimm is lessing his grip. His classes are entertaining and interesting, but they are not clear and forceful as they used to be." "He's been talking of solar power, and I've looked for something good. But he doesn't seem to be working. The apparatus in his laboratory basn't changed for Professor Grissen could not belp eventually hearing

power, and it was pertise time to be at it. But he couldn't soom to compel himself so get to work. He was barry and ratisfied. He didn't were to week Some of his faculty friends also talked him over

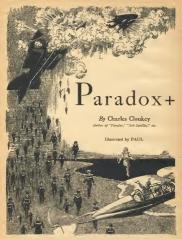
"You're too particular. It is taking more of your time than ever. You don't even come home now. I'll come over some day and take you away from it. I'm getting leafous of your old machine." He felt guilty. People thought he was working terribly hard. He'd had some work in mind on solar

instead of a rheet at the feast.

was sell happy.

Weeks lengtheoed into months, and the Professor "Have you sold your invention to the Amalgamated "No. I'm still working on it. I'm not satisfied to let it on an it us."

311 he sought company, and was a hail fellow well met.



If By the most during manipulation I have ever seen, our pilot put us below and slightly to the side of the one who fell, locked his helicopter control . . . opened the door, and reached out to size the girl.

"BelRADON" was generally actained "was of the cinerast fainthedimensional and inne tracelling storier" and request come in few areals. "Beradon the it recent to us, it were better than the first, dilbangh our here returned to his out time, intact, it was not quite clear what happened later in that faintre time. How did the battle end! In this elevely written and exceedingly shalled resured. Mr. Olonke rells more about it.

RECENTLY in this enquains 1 reside the first properties of the pro

Then Represed Concess told that story which I have tred in picin and and "Particles." It is award that is a restrict in picin and another harmonic process as confinentiny evidence. He shall have his copperature, Backori Havistonia, a wearly destricted process as confinentiny evidence. He shall have his coltation of the shall be a shall be a shall be a shall be a marked manuscript, which he found correlated proof of the achieves of the "Farrise discoverine," and fensible effective discovering the shall be a shall be a shall be effectively and the shall be a shall be a shall be a shall of the shall be a shall be a shall be a shall be a shall be extended in the shall be a shall be a shall be a shall be extended in the shall be a shall be a shall be a shall be extended in the shall be a shall be a shall be a shall be years into the future, to the year 2000.

of that unarescript, which was used before it was made and could not have been made if it hadn't been previously of the time when he was actually and physically in two different places to one and the same time. He sold us not only of those, but of other seeming paradoxes and absurdities he bad encountered. He told me that he could not believe the things he are borren, for his twentieth century mind was incapable of comprehendwhich recorded the fourth dimension as counts and slaregretery, and which dealy with prevaling through time as an accomplished and commontolice fact. He told us of Dwar Born, the errat thirtisth century scientist who as all time-traveling previous to 2930 had been into the future only. He told us of his love for a tall, slender girl of the future, the daughter of the scientist. He told us of the incredible adventure that took place on the requester ninety thorough ton air-liner Potrician on route from Australia to New York. Pleeing from a discussion incomprehensible to him of the mysteries of electrons. teropleizely kissed her. She resented it and struck at him. accidentally striking and breaking one of the delicate life-disks attached to his shoulders. Everyone on the experience attribute vector those disks. In case of an acthe secole that was above being boundered and using that nower to beeak the fall. Carnes then told us how he had gone in search of her father, the scientist, had found him dead, had captured his murderer in soite of the fact that the murderer was pring a stoken device to repler himself totally invisible, and how he (Cannea) had discovered that the murderer was a suy from the planet Mars, who later disclosed, unwillingly, that the earth was in great peril, as Marton spies had distributed all over the corth, in his most densely necessary necessary enormous quantities of the terrible Martins explosive brarrow, which unassisted the power of being deterated by certain etheric waves. One large quantity of this embries was in the carron-rooms of the great place Patrician, and the radio wave, that was to detorate the fifteen mirater, from the great station established by the present of Mars at the Furth's South Pole. All this information was obtained from the Martian ere by ortificial hypnotises. The spy concluded by stating that not one terrestrial being would be alive after three days had

If you have read my account you will remember hour Cannot told us that the encerous plane, death-lader with Martina brarron, was abandoned in mid-air, all of the consequent and even descending to earth by union them life-dukes. But Cannes' disks had been destroyed. He had exceed by using the time-mething just invented by Dwar Been, which had returned him to the year 1928, You will recomber that Carner' last plumpse of the girl be loved had shown her follow away from the plane, which was loaded with explosive, a very few minutes before the explosion was to take place. But, because of his own entered thereach that foreign disservices he had maken known whether or not the explosion had gave talon place. never lowers whether or not the housen exce was annibilated in those three days in September 2930, as the Martine spy had threatened,

had you will remember how Causes had found me from self records that it does had been recorded on the record of the record of the record of the foundation of the record of the record of the foundation to Indiana Centers the eights, and had because to see that he had deverted fast. But size had cheated them, for without his knowing in the machine of the record of the record of the record of the second of the record of the record of the record was dear, can also the choice which he death and considerable of the record of the record of the second of the record of the record of the record of the career have which I've and that his inc. The cutier group that had interest in his every saw him killed by a read a few mirror help considerable of the record of the record as few mirrors before satisfage.

Cames' story and the circumstances surrounding it, so

that even if you have not rend it you will be able to understand the story that follows. If there are points that are not clear to you, a reference to my previous article will doubtlessly make them plain.

M ONTHS later my friend William Simons read the story. He laid aside the magazine and remarked whimsleally, "You've a peculiar imagination, Cloudery. Just what good it is, I don't know, but it's peruling. But why did you kill off Cames at the end? Isn't there

enough tragedy in real life without you storywriters? . . . I interrupted bim annoyedly. I had no just reason to be arrowed, but I was, I picked up my seran-book and showed him two slightly vellowed diopings from the Philadelphia Evening Sulletia. One told of the fire in the laboratory of Endloots Hawkinson, rich experimercer; and the other, dated a few months later. (October 8, 1928), told of the killing of Raymond Cannes. on a street sear City Hall, a few misutes before the

stroicus midnicht, blaming the hit-and-nun driver of a speeding truck. Bill Simons read the climines and turned to me inquiringly.

"You used the names of real people?" "And I told a true story. That is, while I don't know whether or not Cannes' story was true, it is true that be told that story to the group at a downtown club, and it is true that he was killed later in precisely the manner stated by the crumbling records he had been informed of, on the day stated, although he thought he had 'gypped the grim reaper' through the fourth dimension,"

"I do, although I occasionally have some dealers. Ret if that story was a lie, it is the most amazine and unbelievable coincidence in the world that he should die in

such a morner at such a time." "Then why did you publish it as fiction? There were, according to your own statement, a group of disinterceted and reliable witnesses who could wouch for the fact that Cannes told the story, and who also, you said, witnessed the 'coincidence'." Just then my phone rang. To my astonishment, Cran-

dell Sherman, the men who had started the argument with Preston in the first place, was at the other end of the wire. He was evidently nessed for time, but he invited me pleasoutly to meet him at the club that evening. He stated that he wanted to gather together again all light to throw upon it. I went that evening for the sound time to that club, and I took Bill Simons with me. We were the first to arrive Shorely afterward cause

Ralph White and John Stevenson, as solema and intelbetter! a pair of young men as I ever hope to see. I asked White to confirm my statement to Simons that my story had been correct, exset, and true. White did, with

"The story was correct, in the main," he said pelsatically, "although Mr. Cloukey did embellish it a little; not unitally, however. But he used a buffy mixed metather which really earned be blamed on Cannes, because Campes didn't try to use any figurative language, in spite

of what the written version is. On the whole, however, it followed Carnes' nerrative rather closely." I'd hove liked to have thrown a dictionary at White by the time he fittished his relitely impolite terrorouscement, but I had no dictionary anywhere near, and such

an action would have approach unsversity in the club. At Crandell Sherman and the others came in from the next room. After various greetings and introductions, Sherman was much to start his talk. I noticed that everyone who had been present at Carnes' trilling of his story was present now, with the noticeable excention of Gene Preston, who had violently disagreed with Shreman and who mointained that Connes' surv was nothing but fiction, and that traveling through time was

least I had confirmation of a sort.

the most abound of all scientific abourdities. I ventured

"He will not be here," said Sherman, and started at once on the story which is the secuel to "Paredox."

Crandell Sherman's Story

HAVE always believed," he said, "that Cames was telling the exact truth to us that right. I think we all were ready to believe it after that accident, even Preston, although he would never have ad-

"I was particularly impressed by what Cames told us about Endicott Hawkinson, for although Cannes was obviously ignorast of the fact. Hawkinson was also a dose acquaintance of mine. In fact, he married my women'r sister. A day or so before we heard Cannel story I had been talking with her. She told me that she had not disturbed anything in her heshand's laborators since the fatal fire, as she thought that many of his scientific devices had not been seriously injured and duintended to have them approximed. She had been out of

town when the fire occurred "The day after Cannes' death I went over to Hawkinson't lab. His widow, my sister, let me in. On the bernt remains of a heavy table were the charged remains of the tale blue manuscript, that eroduct of a far-distant contury. I identified it beyond the shadow of a doubt, though it was only a been of home easer. Some little sinces

hadn't consilerely lerret. They were a sole blue. Two of them had fractionts of mathematical econtions on them "Remembering how I had been ridiculed the day before by Preston, I should for him to lob me. He did although he thought I was joking. That is, he would have thought I was loking if he himself hadn't seen what becomed to Cames. By the time he arrived I had time machine bodo't been seriously or nermanently injured. The heavy hollow metallic cube, supported a feet off the floor by four large vitreous invulsions, precisely as it was described to us by Caupes, had not been materially affected by the firmes. The early heavy cables leading to its eight corners were still intact. The cube and for feet three on each edge of the interior. There

was a close litting true-door in the top of it, and the remains of a wooden step-ladder were nearby. The heavy cabinet with the bekellte panel, from which emerged the eight cables leading to the cube, was intact and hardly discolored by the flower "The fire in the laboratory had been not at all severe in the place where the time-machine stood, though the

damper to other parts of the building had been were great. This was an enormous piece of good luck. "Preston arrived and was astounded and then convinced. He became exceedingly excited, and his enthusiaver was contagious. To be brief, we spent several got them to reconnect Hawkinson's private power line. first sending electricians out to the lab to repair the faulty insulation that had coused the fire. After all recombing against a resetition of the short-circuit with the regular house-lighting circuit had been taken, that machine of Hawkinson's for producing and employing the NN-4 wave, the fourth-dimensional or time-wave that we learned about from Chemes, was arain reads

for use. "We set the latitude and longitude dials to indicate the location of Sydney, Australia; and after much discussion and arrespontation we set the time dish to indicate September 28, 2930. This was the day upon which for New York on the gignatic liner of the sir, Patrician. "I don't know exactly why we chose that particular date, but our reasons seemed very logical to us at the time we did the choosing. We were both a little crazy with

the excitement of what we had discovered. "We took a certain friend of mine who could be trusted to keep our secret into our confidence, and showed him what we proposed. He served to help us and to keep his knowledge of our disappearance to himself, although he was debious about the possibility of our intention and about the advisability of helping us. We gave him a signed statement absolutely absolving him from any responsibility in case our disapproximate should be traced to him. When he had thus been protected, he sided us

after Preston and I had climbed inside the hollow metal cube. And so, although we were impount of the principles and the construction of the machine, we were taken out of the world in 1928 and put back in in 2930. But it sermed like ten seconds to us. "The sensation was one of rising with terrific acceleration through perfectly black space. There was extreme

cold, and, I think, a remokete lack of atmosphere. We exceed for breath and would have been sufficiented if the journey had lasted a few seconds longer. In the three-Omensional world it would have taken us more than a fourth dimension it took us seconds, not containes. Time is relative, you know.

"When I was almost uncouscious from cold and lark of air. I heard distinctly three clicks. The motion stoomed with a lerk that burt, and light dassied now eyes. It was I was standier in a deserted street between two besidings whose sheer beight startled and impressed use. Official I estimated that they were at least five times the beishing of the Washworth Tower

"Someone startled one by trucking me on the shoulder I wheeled and saw Preston, whom I had entirely forgotten for a moment. He smiled at me doubthully. "'Carnes' story was truth," he said solounly. 'Bet, Sherman, it has uset occurred to me that you and I see the biggest pair of aminturely dammed fools that ever

"And we plunged forward into strange adventure.

"WHEN we had proceeded about a quarter of a mile, we came to an intersection and noticed that for some reason the narticular section of the server we

was thick on the other three arms of the intersection. There was no noise, no confusion, no diet and smoke, The vehicles, of all sizes and shopes, moved ramidly, silently and emoctaly. There was no one near us on the extremely narrow sidewalk. We watched the traffic, intermedable, for ten or fifteen minutes, then witnessed an accident that turned out to be very fortunate for us. "Due to some fault in material or workmanship, a

The driver, with necessor of mind, swerved his murbine out of the rapid line of traffic, and the heavy enclosed car beeched to a stop a little way up the street that had hern blacked off. Preston and I recrused the wheel and caught it. It was fitted with a brave cocumutic tire. made, I learned later, from choso synthetic rubber. We rolled the wheel back to its owner, who had already sacked up with a little compressed air desire his abitter. ing, peculiarly shaped which. He put the wheel on with the aid of a kit of little tools, some of which were also occuped by compressed sir. Then, hospitally, he said that he noticed we were strangers, and offered to take us

wherever we wanted to so. He smiled when we mentioned Dwar Bonn's laboratories. " I work there," he said.

"As Cames had been, I was arrased at the comsensively small chennes that had taken place in the English language in such a long period of years. You remember how Cames explained that circumstance, so I won't so into that. Our friend introduced binned as Jac Vance, an assistant chemist in Bone's great estabby throwing certain switches on the pand of the cabinet, linkment, but told us that 'this was his night off,' but that he would be glad to toke us there. For the first time I realized that it was late in the day. I remembered notice ing the artificial light. Then I saw that it was really late in the evenirus, though the great globes, suspended above the streets on slender cables, gave a natural, pleasant

> "A few minutes later, with Preston and Isc Vanon at my side, I was standing in the presence of Dwar Bonn's confidential secretary. I asked to be permitted to see him, as I had important news for him. (And I had such news, for, if I could have seen him then, I could have told him in advance about the Marrian plans, as I learned then from Cannes after he had returned to 1928 through the fourth dimension.) I was half expecting the answer I gut, for I was just then realizing that we had picked a rather poor moreout to appear in the thirtieth

DOM/SETY: "'Dwar Boun,' said the secretary coldly, has recently left for New York on the air liner Patrician, taking with him his daughter and Ray Cames, a guest, but leaving specific instructions that he was not to be bothered by nor messages or communications. Members of his staff will affend to your "important nows." You will please dictrite it to the dictophonogrister in the next room,

and it will be attended to in due time, replatly in about three weeks, as there are many things that precede it. Good evening. "Before I could say a word the high-hat secretary had disappeared through a door.

"Juc was angry. 'Listen, fellows,' he said, 'you'll never get any action that way. That secretary is a conceited unleade, who worldn't lift a hand to belo proved. I've

got nothing to do toright, so if you want me to, I'll get my plane and we'll fly out to catch the Patrician. She left the Swhiey termines only an hour ago. I can catch her in another hour. We'll land on too, minz sectionpad landing gear, because the captain of a big monotriplane like the Patricks wouldn't stop for any reason to let anyone on. But we can stick to him by soction, and talk through the walls with a dick and a mike." You tellows say you have an important mesongs, and if for no other reason. Ten going to show that _____ secretary that he can't sidetrack fac Vanon.

"He was full of enthususm for his idea. I pressed, correctly too I found out, that there was an old grudge between Vanor and this particular secretory. He instied us back into his car, took us to a signeraner gurage where he parked the big electric readster and ascended with us to the roof in one of those amening clevaturn, whose occurrants feel perfect the autrony ascent not the equally rapid descent. He get out his plane from the hangar on the mod, and we took off after he had fitted us out with two extra pairs of life-disks and had dormed his own. Their use is required by law. Little metal rods support the disks an inch above the shoulders.

I could hardly believe that in case of accident they would "As we took off from the mod-drome I became oware

of a thrill of liking for the impulsive Inc Vanon, and I think Preston did too. In a minute we were away from the lithes of Sydney, abooting along in the smooth silent plane at a speed of almost 2500 kilometers an hour, more than twenty miles a minute. The marvelous science of then far advanced ago made such speeds possible without the slightest discemfort. Inside the plane we felt no vibration and were not affected in the slightest degree by the acceleration and deceleration of the skyboat. When we made turns centrifugal force was not even noticeable. As Cannes has observed, only by the eyes can one sell

"Inc Vasion told us that he would hardly be shie to fulfill his promise of catching the Patricies in another hour, as he had figured out that more time would be necessary. Then he asked if we could relieve his curiosity and sell him why it was so imperative that we reach Dwar Bonn. So we told him the whole story. He was tremendously impressed. His mood changed to seriousness. He was a man of the thirtieth century and he understood very well how, by traveling through the timedimension, it was possible to know future events before " 'So the Patrician is doomed,' he mused. 'Doomed by

Marting bearens. And the whole world-but you say they will be warned by radio from the Petrician fifteen minutes in advance of the explosion. That is fortunate for many will be able to excape from the crowded centers of population, where the explosive is likely to be stored. If this plane had a radio I would warn the world aren earlier. But we have none. We'll try to approach as near as in case to the Patrician before the explosion taken place. Maybe we can save some of the unfortunate ones who would be hit by iragments of the wreckage while they are falling with their disks and trying to escare. Frayments of the wreckers will get a lot of them. "Perhaps even now that havisible Martian is killing

Dwar Born, said our companion hitterly, and then was "That started me thinking. Perhaps even now as we turned it, the men on the Patrician were learning from the captured Marciso's unwilling lips about their danger

* Denter and microhere

was on the unper deck under the transparent roof near the errest ventileace with Gerta Boon in his arms steal, ing that one kits she had so hated him for. Prehana-I looked out through the side window of Jac Vanon's fast plane. The full moon was avoid or one "Jac Vanon swore under his breath, "'Greta Bonn is on that plane,' he said. 'I hope the

survives, or life will be empty for me. Sherman, I admire your friend Carnes and I'm sorry for him, but "I said nothing. Gene Preston whistled "Far ahead of us we could detect the cleam of lights.

and the danger of the world. Perhaps-perhaps be

hadn't yet been contured by Cannes Perhans Carnes

In a very few seconds we came near the Potrician, ninetythousand too liner of the monotriplane type, three event wines, one behind prother, and the third behind and slightly lower than the second, supportion the great lighted fractage. It was a city in the air and it was being descried. Thousands of people were jumping off and falling with their life-disks. The prest obese was motionless, supported by ten helicopter propellers of colorsal proportions

"We know from Cannes' story that the explosion would take place in a very few mirrotes. I experienced a thrill of wonder as I realized that Cannes was on that tikine. Yet I had seen him killed by a truck a thorough years neeviously. The narradox set my head whirtless. "The last great wave of people was descending from the motionless pinne, when Jac's flashed by rather close to one side. When we were a safe distance away Jac slowed and stonged, turning his little sirear around so we could watch. I could see the muscles tant in the throat of our friend of the future. Preston whistled

"We saw one lone favore fall away from the Patricion after all the rest. I thought that it could only be Greta Bons. Causes had refused her offer to give him her life disks in place of his, that she had destroyed. Comes was now alone on that great later and he had no disks

with which to save himself "At the Martiso station at the South Pole, presumtions were being made to broadcast over the entire model the radio wave that would detonate the bearron in the cargo-rooms of the Pairicles and elsewhere all over the earth wherever the spies of Mars had placed it. In shins and airplanes, in factories and erest office brildings, in cities and in great sericultural regions, the mysterious hearron, the extraordinary Martins ex-

"But the radio staff of the Patrician had warned the world in advance. All great cities were being deserted silently. Most of the other great plants were being aboutlaned. Fortunately, no Martina say was able to get word to the communiters at the South Pole about the disclosure of their plans for surprise, and the detonation did not take place until the scheduled mament. If it had been exploded five minutes earlier, the bracero world have done twice as much damage as it did. "Counce has told you how he escaped through the

fourth dimension, returning to 1928 to be hit by a truck. Irony? Destiny? I don't know. "A tremendous yellow flash blinded us. Seven seconds

later the sound and the concussion reached us. As the wrecked remains of the skyliner fell. Jac's little plane hurtled toward it.

"It was only the front and of the place that had been destroyed. The rear half sell toward the ground in one peec. As it fell I now Vason starting at it with purated and expectant eyes. Nothing happened. Our place adopted to the felt, we deling the great mass that was fulling insect.
"Inc use our corner into a stem ofter and soon givend."

are part our corner than a storp one who seen neglets pear a shorter figure, failing showly, by the most design annipation I have sow seen, our pilet put so below and very slightly to the side of the cess who fall, below and very slightly to the side of the cess who fall, below operated over the side of the place motivation, special objects, which is the side of the same new other period to the side of the side

rescued.

"Some piece of the wreckage had hit her. She was unconscious and bleeding from a thin, clein, six-inch cut in her feethead. Otheriess of Presign and me, Jac tried to kins her hard in consciouress. This newtier

saction of procedure rost with remarkable success. She stirred.

"Raymond," she whispered. 'I'm sorry, Ray Cames

"Jee winced and turned away his head.

"He took off his cuter blue-gray cost, revealing a garment like a shirt without any neckland or collar. It was white, made of fine material. He toor is into savine

and bandaged the cut in her forehead, putting on again the outer cost.

"Preston," he said, 'do you think you could run this

bont?

"Two been watching you," was the reply. 'I could make a stalk at it, at least."

"I can direct him," said Greta weakly, learning back nearly against one of the heavy artificial leather cashions.

Fine. Preston will take you back to Sydney, if there is anything of Sydney left. Er-follow her directions, Presson. Thanks in mine and jumped out the Jac booked his arm in mine and jumped out the door of the multiculous plane, drugging me with him.

For a second cold fear held my heart, but the disks let us down skewly and I soon gained confidence. Jac was with me. Far below were many trinkling lights. Varion spale.
"In your time there would have been nothing below

spake.

"In your time there would have been nothing below us but the Pacific Oceae, but in the hat centuries much artificial land has been created. Below us in a great wheat region. I doubt if there are any mea except those who immed from the plane within a handred miles or

more. Men are so longer secessary for the cultivation of wheat. Robots do that."
"Why did you leave the girl?" I could not help but ask, as his conduct seemed certainly uninverlike.

"The taking a chunce," he registed. The got a susption that may possibly turn our very well for us in our war with Mars. Considering that, I left Gerts there. Your friend has mechanical ability—the fact is self-evident. The control system of that plane is very simple, so I do not expect easy difficulty or trouble. Such ions a lot of blood, so it's important that the he content health of the control was a superior of the content health or and there work it is page left. "favorages. There were two erapy account on the Particists, one in each of the faustice. The passward profession of the particists, one in each of the faustice. The passward profession is always and if of the burrors should began to have been in the analize of the two engage-rooms. Indeed this does have been as the passward profession of the week passward profession of the week passward profession was been effective. If they did perhaps them is once must have effective. If they did perhaps them is once must have effective. If they did perhaps the way was a substantial to the passward profession with the faustice is the way are consistent with the passward profession becomes one only dangerous to as, but in them."

"'What do you plan to do now?"

sand that all the brarren now in the Martian' possession becomes not only dangerous to us, but to them.'
"But it there is some unexploided brarron there, subwaser's it exploded when the note was sounded?' I objected. "Why was it not sensitive to the hegadearted

"I don't know," said Jac. "There probably isn't any bearron there. I am just taking a long shot in the dark. But it just donen't seem altogether right that it should be so illegically distributed. It did its work however." "The disks had by this time let us down almost to the ground. Close by was the prest halfs of the cone election.

Patricia, planty revealed by the orange moon. Many men were gentlering about it. A large number of them had deterite lights, operated either by lamteries or by the power that was sharply sineigh moderns. So far, no hereron had seriously affected the radio-power plants. Thay were important units in the world's expensionies, but they had been so well granted that the Martine spice, working under cover, had been able to locate no harmon near enough to them to do any during, with the excontinued to the continued of the control of the continued in the concontinued to the control of t

leter." Crandell Sherasan interrupted his narrative at this point to answer a telephone call. When he returned, he took in the story and sold us of Tar's search through the week for the employee, which was found in large quantities, due to his playing the bunch he had, when he saw the airship full. Sherman told us how he had used the radio one of the survivors possessed and had radioed to some of the staff of Dwar Bonn in Sydney. Most of the scientists at Bonn's laboratories had escaped in the nick of time the explosion that wrecked the great huildings, as bearron had been clearriv concealed in the foundations of the buildings by some of the Marting stries, who were all over the world, disguised, for thes were Martian besins that had been transplanted into the bodies of autfortunate humans who had falled into

Martin Intrit. The Martines used luman todder, as was caphand more fully in Carnet cury, because the Ingide Martin Intelies could not exist long on earth because of the superior gravity. The Martines and control in the law to specific and the Carnet Intelies of the Carnet Intelies of the Carnet Intelies was a superior gravity. As Sherman bas given are express permission to the his story in any way I detice, I am goling to card large persons of his narraity, reflig at that point of face that Sherman old not disclose at the club small the end of this away, lizes that Sherman fidd not disclose at the club small the end of this away, lizes that Sherman follows.

the four cargo-room.

Sittle As I understand the situation, the door from which
the two emerged to descend with the disks was almost

directly below the wing of Jac Vanon's monostane. As they make out of sight in semidarimess, a slight former who had been lying flat on the wing, swung down by a handhold and entered through the door, a tiny oddlooking pistol in one hand pointing at the astounded

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Gene Preston, who was just unlocking the controls, under the direction of Greta Boon The girl turned toward the intruder who struck her heavily with his left hand, which was encased in a metallic flexible playe. She sank back unconscious against the leather cushions. Preston made a motion

toward her, but was checked by a threatening more of the weapon in the intruder's other mailed hand. Prestun looked at the face of his captor. The eyes were a deep red-flecked purple, with no

When the Martisus transplanted Martian brains into human bodies, it was found necessary to transplant Martian eyes also, as the eyes were the only organs of

the body that did not function equally as well for the Marting brain. The eyes were the one give-away to the Martian spice, who had managed remarkably well to been their concealed with colored phases, and had probably been able to kill all human beings who had discovered their secret.

How the Martian happened to be on too of the winer I do not know. Sherman was not a witness of the situation, and his account at the club was nebulous, for his own knowledge is not very clear on this point. The Marting could not have been on the wing on the trip out from Sydney, for the speed, accoleration, centrifugal force, etc., at twenty miles and more a minute would have killed anyons, and the air-occasive, council by the terrific speed would have blown him off the wing. He must have been on the Patricion, escaping the explosion even laser than Greta Born, landing on top of the wing with his act of disks after Ise had rearned her by his daredevil manipulation of the little plane. Perhaps he was the same spy whom Carmes had captured abound the Patrician. Carnes never knew what fimily happened to that Martian. Perhaps the spy had been able to escape from the officers in whose custody he had been placed. Perhaps he overpowered one of them and took

his set of disks. We do not know, but we can consecture. At any rate he led overheard enough to inform him that the girl was Greta Rosa, daughter of the great earth-scientist. Due to Jac's fortunate abruptness, he had not overheard the reason why Jac and Sherman had issued off. The Martian, thinking that the cirl probsecrets, that would be murful to those at the South Pole. forced Preston to head the plane south at its maximum speed. Inside the plane, as has been stated, such speeds

could be enforced. The plane could be electrically heated, and it rapidly senetrated the Antarctic regions, speeding at an incredible rate toward the hendenarters of the Martiana on earth. And birth in the slee above the South Dole was a light that ever came nearer. Gradually a low man made itself andible and run on the ends until it recent has

youd ambility as an encapitation acrosch. With terrible momentum the second Martina space fiver plunged into the soft snow. It was not from its passage through the atmosphere, and the snow was vaporized at once, The first fiver had brought only axies to by the

earnest. "In three days," the spy had told Ray Cames, But Sherman lonew nothing of this as he waited in the outer office of one of Bonn's laboratories at Sydney. the only one that still existed. It was the chemistry and physics lab. The destruction and death in Sydney had been terrible, but the scientists who had escaped, warned in advance by the message from the Patricias, but returned to the one building that had exceed any serious darrage. Receiving Jac Varion's message that he had

foundation for the war, which now was to begin in real

obtained some unexploded brarron, they had sent a plane out after it, which had come back with it and lac and Sherman. Immediately the areat stuff started the task of analysis. It was morning when Jac came out of the chemistry room and told Sherman that they had been specessful.

I now resume direct quotation from Crandell Sherman. Crandell Sherman Continues His Story

AC seemed areath; excited as he told me that the armiesis had been successful.

" 'What,' I asked, 'is the stuff?" "It is a compound similar to nitroglycerine, but it now. Imstead of nitroglycerine, which is glyceryl ni-

trate, it is obviered recrute, or necessorivering. "'Neonze? A compound of meon? I thought peon was on inert elegant." "'It was, until a couple of conturies ago. Chemistry has advanced a lot since your time. While nitroplycering has the formela C.H., (NO.), brorron is C.H.

(NcOa), When it is determined by that wave it is scenitive to, it decomposes instantly into guarress prodnets. You notice is contains more oxygen than nitroplycerine. It can also be set off by beat or by a violent shoeld, but it is not as sensitive to these as an ordinary nitro compound. Its exclusive property is its sensitiveness to that wave, which he the way, we have not yet found. The men in the obvoice lab, have a cubic millimeter of the stuff and they haven't excluded it yet," Jac concluded mournfully. "I was astociahed by this information. I had thought that peop was absolutely inect, that it entered into po-

chemical combination, had no valence. But these chemists of the Originth contary did not seem at all amound because this rare may was in chamical combination in houses the embries of More. Since I have returned to the present time. I have under with one of Philadelphis's best chemists. He informed me that noon was a rare gas occurring in the atmosphere, that it power formerly been meless, though recently it has been emplayed to great advantage in television transmitters, neon advertising signs, and so forth. When I suggested that slosives, sensitive to certain waves, the chemist laughed

" 'Now that you have the formula.' I asked Inc. 'what are you going to do with it? Manufacture the stuff?" "We could, but I don't know whether or not we will We reald easily make all the near we would want by transmittation, which would save the trouble of extracting it from the air.' (This was another astounding piece of information.) "But it we continued the furnise of most, that it, the pressue by which we cause it to actually conside with other contents to form the assessiation, which would be necessary in the manufacture of actually with the content of the construction of a confirmation of the content of the content of the conditions of temperature and pressure, meant catalysts, and a growt amount of tachesial still and shirty. Forerard desirative, it will be able the Martine Israel, the surely, after other training and the content of the the surely, after other training and the content of the protection for every purpose, we yill fine soon is and or

practical for every purpose, very little acostic acid or other nean compounds are in existence, although there are some supplies, principally in the laboratories of a certain flayyous scientist.

"'By any chance the one who has perfected a process for causing total invisibility?' I solved, busing in mind

Reymond Cannel story.

Reymond Cannel story.

"But the important thing to us now in not the formation of bearrors, but the means of detonating it, Sherman. The gang in the physics lab. are trying all wavelengths and omnifications of wavelengths, but the dope in constrainty unresponsible. By the way, we think we've found the reasons why it

by the voly, we then the plane is the next ago. You probdefine explore on the plane is the next ago. You probsely district solve that sensity all the contents of that the problem of the plane is the plane of the plane. Highest of unconsecution was not other realizative materials, some synthetic. Because of this, the entire expo-toom was lined with fact. The other expo-toom contained no such materials, and was not limit."
"Initiating that the wave we want to find does not

already. If my spartment is still in existence—— But first I'm going to make inquiries and soe if Greta's all right. Your friend is probably lost in this new world, too.

"Pwn hours mere passed before I single, two nervous hours we spect in he-audoming ingulaties to all cambay-tass, and to everyone, asking for indominion about Germ Borrs. No hought of retigence analysher had treated ker, yet when we had left them, that specific objectives had been to get medical treatment. When their disappearance was absolutely established, Jac part we in sleep, with his hyveractic drives, and notes more revoked met.

Minorii. Without stechanical or synthetic hypantism, I doubt if either of us could have stept, so great was our exchement and suspense. Meanwhile authorities all over the world were searching for Greas Boom and

Gene Preston.

"But the world had other things to assend so, also.
Due to the deathy warning, only about thiery per cent
of the world's population had been wiped out by
explosion of the brarron that had been concenied in all

suppression of these. Create Steam was not the only important person ulssing.

"Lote in the some meeting Jac and I were realization, also by hypoxism. We listened, with many others assembled in Board's laboratory, to the words of Sen Yan, the able Japanese listeness of Dwar Boarn, who had gar

the able Japanese listenant of Durg Born, who had assumed command at the death of the Inter— "Seismographic department reports,' indiced Yen, 'concusion indicating arrival of Martian synchose within seven miles of South Pole, while attracence department reports two others on was here from Mars. Chemistry usen report analysis of bractica obtained from Patricina, and are making programation for interafacture of stam, if necessary. Physics into report discovery of combination of waters necessary to detonate stams. Anthonities as charge report no trace of Greta Burn, hinting possible capture by Martins 195. "2 threshoes order that beam projecter of necessary

himing possible capture by Maritim apy.

"I three-foot or other that beam projector of necessary strength be at once used to direct scitcible radio waves of amilicain power on Maritim vehicle now at South Pole, which same probably contains new supply of detended seventheres.

Security explains and the second security of the second seco

femend this morning and holding scoret sensice in Disture 3000800 of Pelevida, as accustanted by our Department of News. Because of extreme danger to entire civilizations of model, accessibly aroses of taking receivalance of the model, accessibly aroses of their civilizations of the model of the Rem may be at Martine Pular Hendquarters when we capical between at that locality. "The group reported to carry out instruction. Year shopped a someout to convole Jac, who was fearful for

at suppose a suscent to consor jar, who was recertar for the safety of the girl. I wan very march pleased to dail with the sussan constitute had a place beneth the Jiga-sesse's unchanging exterior, and I was attracted by his many and all definite or indefinite articles, at the cent three hours I made myself useful by a "For the cent three hours I made myself useful by

insteady pla eigentane one of the given's according robots about the season of the given and the season of the sea

"In the meanwhile Dawn Boom's men, under the
se bederable of You, were preparing the great beans projecture. Two more hours passed, and it was trady. Adjustisects were minde and a switch was thrown.
"Just then news come through any robot that all the
search's forces had been ambilisted when they regular

the Initiate of 80° South.

Then Yan smiled, almost. He listened to a pocket
receiver. Their victory was shart-lived, he said. Scismagraphic department report terrific detarming seven
in miles from South Feld.

.

A SKING the reader's indulgence, I cm again going to depart from the thread of Sherman's tarretive, to try to recommend, from every limited information, sectorwhich Sherman did not witness. Of course it is malerstrod that there is smuch that can only be goal-octoration of the three in the control of the control of the very thick walls, sat the Martian Offense Commander, receiving a report from one of his subordinnes. If rendered into English, the conversation was probably something like this

"The air forces of the earth have been shot down?" "Completely, Commander. The automatic antigireraft gans with those scusitive double systems of photo-

checks on each other have functioned perfectly. Every shot was effective. Few terrestrials were killed, however, as the encessors majority of the planes were radiocontrolled, carrying exploders and coses, the latter approaching our on great clouds threatening to envelop the entire polar regions, were it not for our operatives, in planes, neutralizing the gases with stituble chemical

"Our commudes in the other source shin?"

"Were completely destroyed, as was the staff of smgeons who left here with a supply of bodies of expeured earthmen. The surgeons were storting the transferring of Martian brains to suitable bodies when the explosion occurred. Either it was due to the carelessness of some one of our scientists, or else the powers of the earth have in some mamper penetrated its secret. In either case, the situation is serious. We have lost a great

advantage." "You have prepared germ-culture number R-37s?"

"We can afford to waste no more time," said the Commayder. "Tonight all of our operatives will fly north at the highest altitudes practicable. I do not possess heights will be possible than on our red planet. They will carry with these the entire available supply of these lacteria, and will release them into the atmosphere at strategic points. They are deadly and hard to kill, Our scientists worked seven years to develop them. It shows what selective hereding will do. We shall each the earth-scientists unprepared. They have nothing to cure the hideous disease our little serms will soread. They

multiply astonishingly; under favorable conditions a number of those bacteria will double itself in five minutes! "Your orders shall be carried out." The subordinate left to attend to germ-culture R-37s, while the Com-

mander occupied biasself by studying minutely a map his scientists had prepared of the prevailing air-currents of

A short, slight figure entered the room, carrying, almost with difficulty, a slender thirtieth century girl, cold with death. A white bunchare was arrows the high foreignd. The figure hid the girl's body on a loor table at one side of the room and turned to his superior, re-

porture the results be lad obtained "Egyptian scientist lalled. His device for producing invisibility was captured, but was later destroyed by a terrestrial, who captured me on the Patrician while I was attemption to take the new invention of Dwar Rose. whom I killed.

"I was exocured and hypnotically forced to disclose all I knew of our plans. World was warned in advance. Many who otherwise would have been killed cucaped from various centers of population in aircraft I escaped from my capture, stule life-disks, dropped off Patricins shortly before explosion. Narrowly escaped two persons, one of them this girl, doughter of Dwar Born. Forced the man to drive plane south, landing near the newly arrived ship from Mars. The female commander of that ship wanted the beautiful body of this airl instead of the body provided for her by the surreous. The man accommonwing the old, made a feelish attempt to protect her and was killed, while she fled toward the monoplane. I pursued her. Then the entire space ship was destroyed by the explosion of the new supply of brarron it brought. Again I escaped the Ing-mosts of weekast and came here. The riel died from loss of blood from previously acquired wound on forehead, counted with exhaustion and cold, which she is not dressed to withstand. I await further orders."

Two persons broke into the room. One held in each hand a heavy pistol, covering the two Martines. The second earried a small beneatic device. A third entered bringing with him the unconscious form of the Marties. who had been dismissed with orders concerning "sormculture R-37."

The three were Jac Vanco, Crandell Sherman, and Ben Yun, the languese sciencist, BRIEF explanation is necessary. Sharman, upon

A BRIEF explanation is necessary. Someone, detailed questioning by Ben Yun, had disclosed that on the Patricies, Raymond Cames had captured a Martian soy and had succeeded in damaging the wired membrane that had covered the spy, and which caused Eght to flow around him in every direction, as water flows around a flab, thereby producing invisibility. Because of the non-explosion of the hyarron in the Petricion's rear curron reven, it was threefly mossible that the danaged membrane, production of the great Egypties scientist, might be still on the plane. Upon immediate investigation, it was found. Working at fever heat

scientists under Vun's supervision renaired the device Then a during plan to take the offersive had been conceived, and a tiny rocket-plane had been rendered invisible. It could carry only four people. A courageous pilot, skilled in the operation of porket-ships, had been obtained, and with him went You, as commander. He took fac along because of the possibility of finding Grets Bonn; for hours the thirtieth century boy had been attending to his duty instead of scarching for the oid he loved, and the suspense was telling on him. Sherman did not make very clear the reason he was taken along. Three minutes after the invisible rocketship took off it landed at the South Pole. So it was that they broke in most the commander of

the Martians. Again I let Sherman take up the direct narrative. At the time of which he now speaks, he kness nothing of the events that took place in the building at the pole before he broke in with the others.

Crandell Sherman Continues His Story TATHLE I was covering the two Martines, Inc.

saw the girl's body on the table. With a gasp who let fall the delicate hypnotic apparatus in his hands and rushed to her side. The hypnotic device erashed on the floor. Ben Ven drooped the Maritan he had brought in from the outer room, which Martian was being carried quite easily in the herculeus arms of the bis Japanese, and picked up the thing that Jac had drooped

"'Device is broken," said Ben Yun.

"'She's dead,' said Jac Vanon in a whisper, and I beard the first sob since I had come into the future I losest he blamed himself for leaving her, even though his so doing he had made the important discovery of the mexploded brarron. A wave of sorrow passed over mu

too, that I was never again to see Preston. There was a hard elitter in Ben Yun's eyes as he spoke to me. 'Destruction of hyprotic machine destroys

these Martines,' he said, and turned toward the two with the inhuman purple eyes. The third was still unconselmys at his feet. "'Does Community possess knowledge of English

innersee? Ben Yun select quietly.

Yes,' was the reply, "'Very well. If Commander wishes to live, he will at once disclose to us biffing place of large quantity of drug known as admiralin, which is undoubledly keep at this headquarters for purpose of reviving human hodies after Martin brains have been transferred to some,

absence of adressiin from customery places of supply, Spees of your planet have been expert in obtaining nearly all of and drug existing in world. We now desire to retake such valuable substance. Communder will be prompt in disclosing present location of adrenalis. "Ise Vanon rose to his full height, his face transfigured with realization and hope. The maximum dose of nurs adversalip-injected directly by one as skilful as

Ben Yun into that cold, still heart-there was still the margin of a fighting chance for Greta Boun-life! "A tentelising slow smile flickered on the lips of the Martina Commander. There was almost a twinkle in those red-flecked pupilless eves of purple. Somehow they revealed to me the soul of a gambler. Many of the erest erperals of history have been comblers, ready to

stake everything on a chance, "I could lie to you,' said the Martina, 'but I won't.

I could tell you that all our adrenable had been destroyed when that space-ship met with disaster, a few hours ago. As a matter of fact, only some of it was destroyed then, There is an ample stoucky on hand in this building, but it is where you could not possibly obtain it, in time, without my help. The situation is delicate. The fate of two planets will probably be decided right here in the next few minutes. There is such a thing as homor the universe over. If I should disclose to you the location of this adversalis, what terms would you offer me?

"'I do not command forces of earth,' replied Yun. But I hold influential position and command large body of men skalled in every science. My word of honor is inviolable. I have erest desire to give life to beautiful girl, daughter of my friend, now reposing in state of lifelessness on table. You permit me to accomplish that; we leave in our rocket immediately for confinent of Australia: leaving you slive and unharmed, damaging in no way radio station and other great works at this heademeters. After that we recome war. I make neoposition for sake of sixt and boy loved by her, berates I am sentimental man. Any other person on earth,

even though it cost life of girl, would seize chance to kill and destroy, gaining great advantage for earth. You "'Von are confident, are you not?-that you will be able to defeat us Martians anyhow, in spite of a few odd

dozens of centuries advantage we possess in civilization and science. You are willing to forego your present advantage because you think you can defeat us in any case? "'You say treth We have done so twice previously

in spite of great advantage of extra centuries. We fishe on native planet. You invade across wast void of strace."

"Your proposition is hardly satisfactory. If I refuse "I cause you to be killed efficiently and introdictely, Then, incidentally destroying all things here too hig to

carry off but likely to be of benefit to other Martinus arriving here. I conduct rapid adjentific search for desired "'Satisfactory. Shoot. You realize that I am only

a very small part of the Martin machine. Life or death is nothing to me nersonally, or to any high-bend Marrion. We are all working toward one objective, and loss of us will not five to see it succeed. You do not know, Earthman, that your rocketsirplane was able to come here only by chance. I throught that all available air forces had been shot down, and I ordered that our annaiscraft barrier of guns be balted and inspected for adjustment, as the sensitive and delicate photoelectric and gravitational rangefuders that qualiful our automatic gues to shoot down every one of your war planes in spite of their great and varied specifs, are often out of adjustment after a few hours of constant action. You came through them and exessed destruction, perhaps even detection. because of that invisibility. But the adjustment has all been finished by now. As you try to get out of the circle souls, the photoslectric finders won't catch you but the gravitational finders will. Also, in above twents minutes of your time, several of my subordinates will able that you will be able to cope with them at all. They carry bypnotic instruments. We Martians can use them too! That foolish boy weeping on the breast of the girl has been your undoing, for had be not dropped that dovice, you could have forced us to do anything in the world-or out of it! Now you cannot force us, you can

"The face of Ben Yun was an immenetrable mask "'Perhans I reconsider,' he said. Then-

"Yes I reconsider. I perceive that if I shoot you, I and you friends are corolly in honeless death-tran. You have astronomical relescope in adjoining room? "'We have,' said the Martian. 'It is being kept trained

upon the first of the two additional space-ships on the way from More to here."

"Recellent Please look through it, and perhaps I make offer satisfactory to you. "Yun took one of my gans from me and pointed it at the Martine Communder. I lout the other Martian

covered, using the one gun still remaining to me, and watching my charge every second. The four of us passed into the adjusting room. Jac Vence stayed where he was, still sobleng uncontrollably on the girl's still bosom. I realized then that he was only a boy, and my heart went out to him

"The Commander gazed through the telescope for alwhen he turned to us, strive though he did to conceal it. "'What has becomed to the sonce-ship, Rurthman?" "Bea Yan explained. Powerful beam of rollo waves potentiates dataward into interfarinests pane from great eards in Australia. Waves are proper frequency to detecting possible explosive managlycenics, known in detecting possible explosive managlycenics, known in detecting possible explosive managlycenics, known in detecting possible explosive managlycenics, and appendign contributing large graphy of hermon, and squeedlyer is shown to small fragments. Lumediately set your telescope to view other assess-flower.

"The Martism obeyed writhout a wood, and gazed through his instrument once again. He straightened. "It has not been harmed," he remarked. Then he looked again and started, turning almost carefully to Ben Yan. It no! Did wen know their it was no be destrowed this

"It too! Did you know that it was to be destroyed this very minute?"

"I was not sure. I did not know whether or not it

contained any brarron.'

"This. In five mustics that beam of radio waves will be directed at Mars, and will sweep swittly over your red planet. You see what will hoppen wherever harmon to hears made? You see what will happen in any waretowest where it is sowed? You reduction! what will

occur to say other space-flyer in which it may be leaded?"
"Your offer is what?"
"Ben Yun took from his pocket a pocket radiochone

of the latest design. "This instruments easiles are studied to attentive and obedient substants on constituent of Australia. If I command in two minutes from now, and to have been a proposed. I right word of hence to delay for twonty-den beams, servential time. You was religiously to the proposed of t

for lives of stysical, friends here with me now, and years girl in other room. Do you except?"

"I accept. If no explosions take place on Mars in sext five minrios, and you give your wood to delay one earth-day, all of you may depart from here and reach Australia, additional medical from the man added to the control of the control of

earth-sig, all of you may depart from here and reach Australia without moleculation from me or my subsection saces; and if alternalia will save the girl, she lives too. I accept. Give your orders to those in Australia? "Ben Yun got in tooks with his sessions at some and steld him of the truce. His orders were carried out. His content of the content

assistant reported back that the radio projecter had seen start off. Yes towards to the Constructor. The latter turned and fed in lade to the other room. The thirt turned has fed in lade to the other room. The third "It will be necessary to restore her blood to the condition in which is extend during life,' stand the Mastina succionlessly, the four-yes on the successful in reviving her with advantalia. You resumber where you optimed this Martinal P to laquired, pointing in the figure on the

"Yes. In third room, through door here to right," replied the Japanese. "Wery well then. Throw the tirth wissels in the life on. Bellet July as less planty portion of the flow will the reason and the bellet with the reason function and the less with the reason function and the less than the less t

pump performs, restoring Eie.'
"Yes. And where to find adrenalin?"
"I saw the Martian dominanter hesitate the briefess

fraction of a second.

"You will find the adernalis in other Martian lottles
of larger size, sucked on third shelf from the bottom.
Sixen capturing it from various piaces on the earth, we have purified and rebottled it. It bears the momerical
label, R.S.25.

S HERMAN again left us to answer an insistent phone call. While we waited for his reappearance, we discussed his story in how tobes.
"I don't believe h," said John Stevenson as if trying to convince himself, "but I know Preston disappeared a loss time any seed hum; here incomed we. But I don't best time any seed hum; here incomed we. But I don't

believe it."
"You're a liar," stated Ralph White caseally. "You
do believe it, but you don't want to admit it."
"You're probably right," admitted Stevenson alowly,

on street I, say you near their to acres in the probably right, admitted Sevenson slowly, "I do believe it, in spice of my correson sense. I'm going to get a firth of water white Sterman's phening. He back in a minute."

Robb. White temed to me in his superior superior.

"Geing to publish this too, Cleakey?" he asked indefently.
"Perbays," I replied, "though I'll probably after it somewhat. I may even insert a split infinitive."

I may even meer a spat mantive."

I terned toward my friend William Simons.
"I'm convinced," be said, "but I wonder if I'll believe it tomorrow, in broad daylight?"

John Stevenson returned, learning with news, "There's according odd going on around been. Cranded Stevenson literated to that phone for three mines without sparing a word. There he left bere so quick that he thirst have hime to take his hat freen the direct room. I cought a glimpoo of him going toward Market Street in a Quoder City Cah. I wonder what in the Committee of the Com

(Continued from page 311)

"Charles?" came his wife's voice through the cloud tists over the country were expecting things from him laboratory door He bened up and the to the culture. With one sweep he shut off all the generators at once. Then he

burried to open the door. There was his wife, and belief her, two brave men

Behind him, the picture had faded, and the hum of the renerators was delive down. Her he had shot off the power so abrustly that the wast room was full of swirls and executes. A blast of air blast out of the door and the windows rattled. His car-drams clicked with the sudden emoure. Papers blew short: a stack of them swirled off his desk, and his but circled out of

the window. Blue halas crucided and whirled conveybers. His wife swored at the rush of sir, but received her supreme calm at once.

"We couldn't wait," she said sweetly. "Here is Mr. Rescribal and Mr. Trasky of the Amalgamated Amusemouts. They say that they never got your letters about the machine at all. They were so excited when

I told them what it did. They have a check for a million dollars all ready written out for you. Ten't that wonderful? I know you won't mind the interruption, will you dear?" Professor Grimm stood and stared Markly. Confu-

sion reared in his head and he could not speak. He could not think. Sell the Integrator? Lose Amoranth? Be muerable? Was it worth a million dollars? Which

his wife would spend? On the other hand, he ought to be working. And this thing had kept him from working. There was the problem of solar power. His university and the selen-

on the solvert. He was rather advanced of himself He grouned. He couldn't decide. His wife stood there, a jewel of the modern art of beauty-making, paging up at him to a kitten wight book up at a police-

man. The two men waited respectfully He put his hand to his forehead and sat down at the board of the Integrator. He reached out for the

"resterns": he sunst have a look at them. An iew shock shot through him. They were not there! With a gaso he remembered the papers flying out of the window. Out in the darkness the wind still

tossed a few shrets about. He learned out. There were white sheets floating on

He sank back. His "notterns," those sheets of caper covered with calculations, giving the settings of the

stork-rose and the milliomperages-He shrugged his shoulders and pulled himself to-

eether with a sudden movement. He turned to the surresement coagnates. "I'll take you up," he said quietly. "Do you want a domenstration?

"Never mind the demonstration pow. We know you. Let's close the deal right up." Professor Grimm signed the paper and took the check

from the fat, md-faced upp. The two men barked out of the deor lifting their hots as the Professor's wife joyounly threw her arms about his neck. "Solar power," he was thinking, "Tomorrow Pil have to look up Langley's stuff on the pressure of

THE END

What Do You Know? READERS of AMAZIN'S Systems have frequently commenced upon the fact that there is more actual/carningles to be gained through reading its pages than from Many a temphoda. Merceasus, most of the sporks are written

is a popular vois, making it possible for anyone to group important facts. The questions which we sive below are all answered on the pages as listed at the end of the questions. Please are if you can answer the questions without looking for the answer, and see how well you shark in you can asswer the knowledge of science.

- From what point of view can matter be exendered imaginary? (See page 294)
- 2. Does the raising of vegetables and anymals for food purposes a
- What are some of the inconsistencies which can be found in our system of law-making? (See page 202.)
- 4. What chappes of storn's rature are unaward to take place in but stars? (See page 336) Can we suppose transmittation of marrier to take place in a Coolidge Tube? (See page 208.)
- 6. What did Moscley's and de Broefis's investigation
- 2. What is a course cloud? (See new 300.)

- 8. What period of decomposition was be assisted as wraterary? (See page 333.1 9. What extres the electrical resistance of admikum to vary? (See page 333.)
- 15. What are judy expandions? (See page 233.) Assuming force rays to exist, what would Newton's law of action and reaction tell us about them? (San page 354)
- 12. What is the name of Neptere's record (Set man
 - (See page 362.)
 - 14. If two force erro were house in diametrically alto directions from a body sad one was ent off, what would happen? (See map 366.)

a m 1 n

IN this age of scientific and inventive progress, which sometimes borders I on the miraculous, it is difficult to keep abreast of the newest "replacement." Slot machines have replaced human change-makers; mechanical cleaners now do the work of numerous workers. The screen-and now the vitaphone-have made possible the simultaneous showing of entertainment in many cities. It is now equible to stay comfortably in your home the while you listen to the best in music and talks. And television-when it is perfected-will undoubtedly revolutionize many of the recreations of the future. But all of the improved means of amazement are subject in great measure to the temperamental whims of the performers. Perhaps some enterprising young inventor, devoting himself exclusively to eliminating this troublesome feature, will strike the secret of the perfect robot extertainers That would call for revolutionary measures, indeed. And certainly it is not impossible in view of our present progress,

Illustrated by MOREY

"I was one of those delightfully cool evenings in Tentour funit . . . for here it was, in the Year of Greee, 1950, and I am setting old,

Standing in front of the tall, pier mirror, I surveyed myself from tip to too A wildower, with streaked, gray hair; face a bit wenthful, thank Heaven, although not come the vivacity

and verve of the younger man, who went to glorious France in the Great War. Other wars had occurred since then, but, owing to inluries suffered in the compaigns, in which I had been

openred. I was unable to take any active part in these latter upbeavals. Seating myself in my favorite chair, I took a tohacco careagle from the tobocco-ior, and, placing it in the little poff-pipe, a touch at the side of the pipe, and an

electric spark had ignited it, It was uncommonly fine tobacco from my son's plantation in Siam. The American crop of toluces had practically become extinct, due to the elusive, festive Japanese bertle, that

had its first incubation grounds at the mouth of the Delaware River, back in 1927, thence spreading into Delawore, Maryland and Virginia, on the South, and New York, Connections and Maine, on the North,

There was some Burley tobacco left, but of a powdery consistency and quite unripe. I learned over and took from the bookease a volume

on the War of 1940 between Russia and Italy, However, I felt ill at ease, and throw the book back

It seemed too wonderful an evening to remain indoors Learning back, my mind reverted to enjoyable evenings

of the past . . . of the days of the cinema and sound devices now long since forgotten Few people in 1930 had had the vision to group the

fact that the constant experimentation with synchronization of moving pictures with sound and talking, the would overtheow the dynasty of Frimdom It had been a source of keen approvates to me that

films had become so excinct as native tobaccos-Well, it had to be, I suppose. Did not the mod escale of my grandmother's age rise in rebellion woon tallowdips, replacing same with the gas flame, and later with

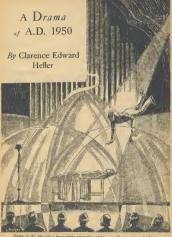
By man's own individuality, his own superiority, his irresoclastic ideas, he had, in his attempts to insprove the drams and moving pictures, created a machine that had overthrown their programmers.

Of course, master minds immediately were connelled by the loud outery to devise new ways to assuse the masses. It had remained for one Sigron Philo, an assure thanker of advanced years and beain, in collaboration with a young gettine, in his face thirties, by name Trevos

Manthias, to evolve a plan that would revolutioning the spoken drams of stago-humans and of the screen as well, that had so desaily folled Phillo, like his predecessor of surjouity of the same

name, thought it fitting that Greeks and barbarians alike should share in any absolute good. The rich and the oper would benefit by his wind Inversions Philo recollected that back in 1928, mankind first began experiments with mechanical con-

trivances called "Robots." Did not one robot open a national fair in 1929? Did



Down in the pet was a long white operating table. . . From a door high up in the wing the robot doctor entered,

not robous officiate at cornerstone lavings; proxied for receres in Toronto, Canada, with a rivid team from speakers at languets and commencement-day evercises; Tokso, Japan, before an estimated audience of one By accident then had the young assistant. Trever

Matthias, one night stumbled upon a great secret, All that long night he had toiled in the laboratory of the erest Philo, and in the morning hild before his superior, a robot that almost resembled a woman! Heretofore all robots had been musculine

Matthias wout one sten further . . . he evolved sexyet in such a delicate manner that man's imagination could renorive no evil upon looking at her beauty,

For, in the percuses of the years man had become accustomed to look upon his brother and sister as one family, miras sex, the same as flowers dwell together

His female robot sang exquisitely as any diva, and in any language desired. She could also walk, dance, execute consortions, fly, climb, circle the ceiling.

Naturally, the same principles were applicable to the midt rebet Philo was inhibited . . . and the Press that night cave its entire first pages to the discovery.

I laid down my puff-pipe upon the stand, blew out the last clered of montipoless smoke, and arose from my seat.

It was a wooderful age in which I lived, and what WANDERING similessly about my room, on idea

presented itself to me. I would descend to the floor below and pay my respects to the Van Swaggers. I immediately was carned on a circular platform to the floor beneath me. Knocking upon the Van Swaggers' door, a reflector

overhead corned my impression to their living-room, and soon the door opened, and admitted me, A robot took my hat and cost, for I was dressed

The family greeted me warmly; the elder Van Swapger had been playing a game of international chess with an opponent in Switzerland, over the wires of the Atlantic Cables, Incorporated, I did not interrest the game, but watched him take a hishop, as he talked

into a receiver, and balted his victim some six thousand "Won't you listen to the closing numbers on the photophore, Alonso?" queried Madame Van Swagger, who had known my wife when she was living. Did I omit to mention that my name is Alongo Heo-

burn? Pardon my emission I thanked her, and inquired for Miss Dally Van

"Is she going out?" I asked, feeling a trifle "Oh, no," replied her mother, "just dressing in case company dropped in."

"I am not company," I hughed, at which the mother I culoyed some of the singing of the concert prorram, which was being broadcast by the Photophonic

Process, Ltd., of Great Britain, founded in 1935. Young Tom Van Swagger interrupted the concert to get a hall score of the indoor haseball game then in

Again the name proposed and at this impeture. Miss Delly Van Swagger, a denuire lady of some twenty-six semmers, but appearing to be but eighteen, made her appearance, gowned in soft white, hare-footed, and with hair braided down her back.

be her lather, although, when I tell her this, she always grows angry and says I humiliate her before the

She greated me shyly, because I am old enough to "Why don't you two young people go into town and see "Fluminge, the Great Extravaganes," at the Times Square Community Theatre?" queried the mother.

At the word "young" I gave the mother as arch look, and Dolly cutching it, turned on the pivot of her foot and took a seat near the Photophone "Will you accummany me. Miss Delly?" I enough asked

She affected to pout for a minute, then terned to me and smiled her assent

"What time is it now?" inquired the mother. "Just eight-thirty exactly," I responded, gloseing at the brokens dial on the ceiting

"You have one-half bear to get there, and Dolly will take but five mirrates to change to street or theatre aprarel," said her mother "Where shall we so?" asked Dolly of me

"Your mother had suggested 'Flamingo,' " I reminded "Oh, was to be sure," she replied, reddening under

"Well then, dear, be off, for you ought to be in your agets by time o'clock," her mother answered helidily. Excusing her lovely self, the white-elad Miss Dolle rang for a robot, and presently a ferrale appeared, who,

countries a door, rerecoded her mixtress to the help chamber. Ten minutes later a vision in series appeared, in the person of Dolly, appropriately garbed for "Flamingo."

Here I must member that in this period the lather all dress in affectation of the central figure in a drawn Inastench to the ster "Floreinge" was earlied in a rich

rouge, women affected that shade in attending Miss Dolly was dressed in brilliant feathers, of a han-phrasant, possibly. Her head-dress was the same

She were sole-slappers, of course. I did mention, I had hoped, that shoes and evering slippers had long since gone out of date for women. Tom Van Swagger was now listening in on an ice-

bockey same broadcast from Sr. Moeits. Thus, both father and son were contacting Switzerland at one and

Mr. Van Swagger appeared to be having difficulties, however, for his brow was furrowed in doco study, as he just grunted a "Good Night" to us. Once out in the corridor. I touched the key and

both eraspine the role, we steeped on the circular platform and were conveyed to the first floor.

Walking to the doorway, we energed into the road night air, and taking Miss Delly's wrap, I threw it around her white shoulders. Pressing a switch on the outside of the hotel, a door flew up. Depositing two spheres of metal in a slot, we descended one flight, and took places on the moving It was a bisnesh ingrees of fifteen mirrores and Dolly amount herself elancine at the electric displays in the underground stores. Far below us we could distinctly here the coar of the vehicular reasie tube.

I T had been my thought to attend the premier of "Flamingo," but I have an aversion to hope, everflow crowds. The Merning Electogram, which daily flashed the news to me across my diring-room wall, told me the morning after the permies that fifty those sand nersons had been turned away the night previously. Alighterur at Engineerent Street use took also secula-

for to the street level, and repressing a circular brilding. in which were located some two thousand families, we

What a wast place it won! Seating seventy-five thousand persons a contributor rostrooms; a restaurant where good meals could be ob-

tained at the seerinal figure of only two dellars per place; baths; manager; colffeer; hospital; Birary; tearooms, smoking-rooms; international telephone service; bridge-whist room; termis courts; photophonic concert rooms in short, a report for kines.

Upon the roof of the building was assembled build a fleet of sirboats, that come and departed at all hours for distant points. The show would begin recepted at sine e'check, and

it lacked but a few minutes of the bonr, Observing on the frame which was located at the fourth side, West, that seam fourteen and fifteen were vacant, as indicated by red fictes bearing numerals, we made our way, unattended, course at the designated tally light at the row entrance. We enally found our places, which were distinguished in the sessi-glosen by male, wellow signal-lights aton each seat. Upon taking our

places, the signal-lights were automatically extinguished. Surrounding the theatre were large, uneight mirrors. probably fifty feet in height by twenty feet in brendth, The show itself was reflected in these mirrors from the front or Master Show. Scots in the Master Show

People sat in tiers, in the scirror section, one elevated above the other, with perhaps two thousand souls in each

alababetically arranged parties Our costs byreared to be directly in line with the

Master Show. THE lights were sudgenty examples on the stage level, disc, forty feet in diameter, under the stage level, broom to receive abusin. France and fractor it metated

med faintly the notes of sourie could be beard. Attuloing full speed, beautiful harmony floated and over the This instrument was called the Ombosium, which

broadcast music direct from the Picudilly Circus Dusce Then propose percentile it should over to the

latest "hit" . . . the thone song of "Flamingo" . "Red Love" It was a some concerning a levely weenen, whose beart, pierced by the knife of a rejected lover, was sutured by the skill of a dector's needle. The doctor, you may be sure, was mostly in love with her. The blood-dress had ceased to surge with the collapse

harmony scheme of red, as the doctor strove to revivify Now, the music cented absorber, and in the declares. I felt the tiny hand of Miss Delly timpily steal into muce for mutual protection, as it were. I gripped her little hand more fervielly than the occasion demandral, as which I felt her stravele toward me. Suddenly a vertilest or of choice below our should a haves tipe, or from the mow of a slave-ruley .

and a trooped number . . . broadcast by the Underseas Photoshone Subsidiaries, of Great Bretain and India. The lifting targalizing notes of "Europemia, a Scole Charmer's Dream of the Ganores" caused the scottered sudience to sit up in articination

Illuminated signs at each side of the box-stage tranounced the nusical numbers.

From the box-stage good, which had usumed the armon and familiar street of the period 1930 near de tros, have rose-entered curtains fell back, disclosing you

drowned-of scenic spleadors A plantation scene in Africa . . . a chaoring of a soleme direc, by invisible voices . . . and then, in a bute of links the central figure in the brilliant spectacle of "Flamings.

the beautiful robot Mile. Flaminge, pircuetted across start on the too. "What a beautiful woman?" ciarolated Muss Delly.

"She is not a woman, but a robot," I suswered, to her austrement and unhabet "You are jestice, Alono," she sowered coffing me

by my first name, and thrilling me, old fool that I am Of overso, the injection of radium-iron had taken twenty years from my appearance, but, dush it. I was no forcer I dismissed such thoughts as unbecaming, and turned

my mind to the brilliest personnes of the Drama. Simultaneously, allow me to recurion, in each mirror that I have described, the action of the Master Show was being faithfully rentmond. A young men sected in front of me tilted back his

reclining, wicker-chair, and sighed deeply, Now, from her lips engrated, for more gloriously, I will odmir, then any brance shaper ever had attempted on the old symplectices agrees of the Thirties, so suchainally illurical . . . the levely votes of "Red Lose"

I closed my eyes, lost in a reverie, communed by the mAlimits of the spice It eritard Miss Dolly, too, for I persoived when I

council my ears that she was staring at me like a startled This was the identical number that the Orphonium

had played as a Prehade. From the secons of the box-like stage defined executive phanton robot shapes, each one taking up the chorus. until the playborse wheated with the harmone

From the Deaf Section, in which those, who were so unfortunate as to be deprived of bearing, were seated,

the cut-in waves of sound, from the Arlamal Hearnme to a complet common the committee that have supported appropriate touchtaine, man suring,

For the blind, let me add that there was a reserved. rays of a Spectrumoscope, located on the criting, and penetrated the brain-cells of each living person scatted thereis. This reproduced on the extract retira images of light, that easy them intelligent equipm of the Steam

Thank God for these inventions . . . Deafness and Bändness removed from Man, who had evoluted high enough in the recens of the things of the Course to samours in a groove, under our seats, a chain-elevator

AMAZING STORIES

receive direct messages from his Cremor. But, I must not digress in this monner, except to rive was some ideas of the marvelous improvements of the cra-

SCENE Two then burst upon us, and again, the

staw oracefully as a human being, performing ountertions hitherto unknown, and unstrempted. Bird-Nee robots now descended from the colling of the theatre, and where they came from I never can determine. They circled the yeat surferens, dancing, twit-

tering, chirping, and from ministure photochosic cells affood with melody I cannot, of course, attempt to describe the entire

three-hour performance. It shall suffice that I shall tell you the high lights of the beautiful, transocralinely-levely, Extrawagunus,

In the fourth seeze, of the fifth action, occurred the murder. Heads were erasted forward, and Miss Dully placed her head on my shoulder, to which I made no objection The theme some once more creek over the entire house, with its taughed tale of red leve, played by the indescribably beautiful Orobonium, and taken up by a

charge of these bundeed solute sales harst from their habitat, and floated about the theater, tuoo invisible wires, each one seeming a living thing of loveliness and rong A bush fell over the excited audiences, as the lower

of the spectacle, the robot Doctor, arrived in mid-air, funition . all in red and invested effects, scientilla lactrat.

When the hird alighted upon the stage, he sprang from is and can open to Mile Wiemines. December heart conered by the knife of the assessin, she lay a benefital thing of nity.

The robot Doctor recoiled from the sight, and his orief was pathetic to behold. Miss Dolly assured me, in vehement undertones, that she felt certain he was human. Ourse stoom I compressed Man Dally by tellion her the Doctor was a robot

There was an intermission of this part of the program of fifteen mirutes, and as the hundreds of thoseunds of lights proceed, as if by maric, brilliantly lightley the scene, we were against at our large audiences

Every sent was occupied, and none were standing. for it was a rivid ordinaries of the relies department of the creat metropolis that each negative result be accept.

or no ticket was to be sold. There was a special box reserved for distinguished guests and royalty.

Someone in the audience, with ferret eyes, detected the inventor, Simon Philo, in the box, and the admisers present demanded a speech. He was very self-conscious, however, and to all the

Robots appeared in the sisles correlar mokins, and

wheeling ten and onfice wagons.

demands, was adversed. He arrow and housed assessed

The lights blinked, and we deposited our cups and immediately taking them below to the bitchese while the emost down un middy The fifth scene of the fifth action disclosed the stage changed and set . . . with a maryalously contrived amphitheatre, containing row upon you of seats. Robot students could be determined burrying each one

Miss Dolly and I signed some delicious tea, which the

female robot suppred to perfection

to his pince. Those in the pix was a long, white, operating-table Miss Dully errored when the increasingly errerish

Sight betrayed the form of Mile. Flamingo, stripped of all embelishment, with the blood of the convenied wound upon her breast. My reader must remember that through due processes

of investion we had arrived at a state of nerves, whereby we were able to witness sights, that in 1930 would have prostrated the entire audience. From a door high up in the wise, the robot Doctor,

gurhed in nurulation wine gown and covered head, now ensered, followed by two purse and three interne robots. The Doctor faced the gudlences . . . every eve and car

He began to ning, and the borden of it was that his Love was cracily dead . . . and he then bull raised her so that the thorounds of witnesses could perceive the truth. Her heart, yent in touin, was lifeless utterly, and he same of his hopes that their love, descined to be so yet. could survive the grave

The embryonic doctor-students now rose in a body and chasted the awful direct of "Corona Delicti," a sort of litary, as nearly as I could guess at it, willing the outstance of the terrible offered to the dead A crash of manic . . . keved to its fullest extent . . .

an west to volume that several prisers in overhead chandelies becks, and narrowly expected deing serious mischief as they fell upon the soats to the Doof Section The Orphonium was now playing, in all its awful solemnics the world-formed Rehabilitation March from the "Souls Affort," by the Corntor of the Roscorch De-

cortment of Oxford Maneum. THIS was, let me explain to the un-World. The Cursice, alded, of course, by his profound studies of the spirits, had succeeded in establishing communication with Liux, and from him, had obtained and

ing in the other. Linerally, therefore, "Souls Affair" expressed the thorne. Of the sublime feeling of the body after death . . . that never more can be assessed with its Soul. The Soul, being immortal, and the body, corrunchle and of the dust, most forever leave the third

corresponds and become a thing, regogate and apart. Many would not believe this truism, but the bonest Curator had explained, quite satisfactority, to many horizon of

Jupiter and Mars, that a perfect development like the Soul carner more inhabit an imperfected development like the Body, after worms had eaten the flesh In the atmosphere a solid shape now may cooking study wishes which in researchly feshion leadly perturbed

that the surre of the robot Ductor had brought it almost from the boundaries of Spirit World.

The robot Doctor, with demoniscal bugh, caught the spirit, tucking it into the wound, which he now deftly closed, and tied the threads. He again faced the audiences and in his eyes was a Speleen hope. "I have recalled, by the Miracle of Love, the Soul of

my Beloved. Had her body been corrupted. I would have suffered instant annihilation for my temerity. But, her lovely body is still preserved. Without the spirit, which is the Soul, even though my skill could produce hip itself. my work would be as naught. For, who would wish a

Love without a Soul?" These words be called forth, ending in a great solt. The student body now took up the burden of his

desprier, cheming, in union . . "For, who would wish a Love without a South

We could almost bear our own hearts beating. Now, the descair of the robot Doctor began to turn

He advanced to her form, second at it keeply, then cried, in a mighty voice. . . .

"Look! LOOK!" . . . Mademoiselle Flamingo was actually rising from the

table! With one white hand to her heart, and guileless, as her lovely body faced the immense assemblace, she smiled

at her robot lover. "You live, you live " be asked her, incredulously, now that his work of love had been successful "Life for thy life," she answered, sweetly, holding her

arms out to him for his embrace. "Red love, Red love," . . . and with these words, he gathered her form close to him.

The student-body now song pagons of joy Celestial masic radiated to all quarters from a bormonium, suspended in the center of the theatre ceiling,

some seven hundred feet over our beads. Gradually, as the startled and semi-hypercrized audiences guzed with strained eves at the scene, the robot Doctor and Mile. Flamingo, still in a tight embrace, were

wafted, mysteriously, into thin air, the bejeweled bird, "Flamingo," lovering over them until they were lost in the sunset. Amid a prespende of divine music, the amphitheatre scene melted out, as ice dissolves troop a window-tune

under the genial warmth of a freshly-lighted fire A shower of lovely flowers now fell upon every one of the meny audiences Among my souvenirs of this brilliant Extravorante there is left a rose, which I took from the scented bair

of Miss Dolly, which she allowed me to knee, The audiences of seventy-five thousand versoes arose and cheered like mad. In the Master Show section were possibly fifteen thou-

sand souls and in the Mirror and Special sections sixty thousand souls

TOW the theatre, as one unit, rolled back upon its binges, so to speak. Glass door after glass door noiselessly rolled upon each other until all was one vast, CONTRACTOR CONTRACTOR

amomatically stuk into the floor.

the spectacle.

There would be no danger of penic with such pre-Later in the picts a dance orchestra dispensed music to those who cared to pay a slight fee, and dancers would be gracefully scarrying over the very places where we It was now a few minutes past twelve o'cleck.

We made our way to a grill one level below the theatre floor, near the moving sidewalk I ordered some choos, toest and wine for two

"To think" said Miss Dolly, her face flushed, while waiting for the robot waiter, "what a marvelous show, solely with robot artists.

I was glad to perceive that the entertainment had been It did seem inconcervable that anything mechanical could act with such precision without one flaw.

waitress interrupted my musines and Miss Dolly's

eathmisstic comments "I am grateful for these robots, Alonso," Miss Dolly

quariatly remarked "And, why?" I asked her "One does not have to be, er . . . jealous of you

fascinating men even though the waitresses are so charming. I hughed heartily at this, and cut a eigarette from the

conocaled eigaretze-string in the mechanical elegarette Cigarrettes came on long ropes, some forty feet in lesseth, sillow me to explain, and at each clip of the cutter

one had a freshly cut smoke. After a few minutes I discerned the Manager of the theatre approaching, whom I knew intimately, "How are you tonight?" he asked me, extending his

band, and shaking mine cordially I introduced Miss Dolly to him, assuring him that "And the Show?"

"Exquisite," we both answered in one breath. "You know," he begun, taking a chair with us, and accepting a small glass of wine, Ziegfeld, the glorifier of women of his period, purped his houses icto mbot shows. But, ah, they were marvelous! His did not, however, produce on the same extravagant plan as I do in the Community Theatre."

I nodekal my bead, correspondentiarty "When a robot orened a national show hack in 1929. it occurred to me then that they would feature in a big way in the theatrical world. I can recall many amusing situations as the public

first began to become acquainted with the new world marcal, the robot. Our night Zigefeld told me that a certain rich twoe of starcstruck Johanny of those days was much enamoured of a beauty in one of his choruste. Zicofeld was then remains in several female robots

was almost corrosme by the overwhelming greatness of with his acts, and the manner was laurholds in which the audience would try to detect the human churine from Well, this certain devotee of the show waited outside

an hour in a pouring rain, on West Piftieth Street, and when a lovely lady emerged to step into a cah, he rushed forward and throst a because of orchids in her hand,

After the suffences had made their exits, the seats which contained an expensive ring concealed among the

The Message from

By David M. Speaker Author of "The Disintegrating Ray"

GEEAT trides in the field of phato-electric have been attained through the Our of pleasine. That there are more, however, that there might be no the electric in criticace with transport plate-electric properties that selection—strong coups), perhaps, in make possible communication said in communication. If any of the planets are inhabited by intelligent beings, or breve, or reductar, justpleastery radio communication might become an extensity when such as elment is discovered. Mrs. Speaker is well become to our readers. In this steep he combined recelled untiling with planet of circus of numeral interests.

Illustrated by MOREY

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Prologue

PTER I had eventured in the torpid city heat for a cover a manth, Wadoon's letter almost made to believe he was inspired. Needless to say, I jumped at the opportunity thus offered me to spend several weeks with him in the Catalolla.

Catalella.

My friend was there to meet me at the station in his assumble.

"It's great here!" he exclaimed. "Hunding, fishing, beating ill peason. But there's a surprise for you. I've

beought over a regular laboratory and I've..."

"A laboratory? I never knew you were interested in science. And even if you are, what one earth possessed you to bring your paraphernalia out to this place? Must have been an awful job."

"I thought it would be a susprise," with Wadon. "You soo, I've convoid a sudding passion for playing soo, I've convoid a sudding passion for playing and demistry in the last year or so. I accelerately not on of my old professors and we get taking above advance and so forth. That was the beginning of it, and I brought is loc of suff along with me so that I could work uninterregately."
"Well." I cockinged. "You never for thinse by halves.

do you? What's going to hoppen to your loody guest while you are pottering in your laboratory?" Wadaso smiles!. "I succept," he said, "that the "lonely succe," will be

interested in postering in the liberatory bismelf when the hears that there is a twelve-tube condition radio and television set under construction there." By this time we were passing through the driveway bending to Wadson's home. The brilling was mughly rectingular, with an adjeining wing for the laboratory. "How would you like to see togs his first?" Wadson

suddenly saked.

The laboratory which we entered immediately was a room of modest discussions, but its chemical equipment was complete. The whole place was littered with chemicals, benieve, tubes and bettler, but there was little that hore testimony to any interest the owner might have in physics. I said as much to Wadson.

bore testimony to any interest the course might have in physics. I and as smach to Vandara.

"Yes, that's true," he assessmal, "for you see I get the chemicals and chemical apparatus first. Then I started the physics and with the trickvision set. As a result I fingute everything also but that. Look here," With those words he attracted my attention to a closed at one and of the room and opened the door. Within was the largest

apparatus for adexision work that I had ever seen. The immerces examing disk was equipped with Innex after the latest pattern, and the whole machine was connected with a twelve-tube radio set. "Looks nice, doesn't all?" he grissied.

"Looks nice, doesn't it?" he grinsed.
"It's really grent," I replied, "and it must have cost a
good deal. How large an image does it focul?"

"Med, it cost me alout 252000, including the radio was been been on open include yet. The image and the second of the second of the second second of the second of the second of the wanting of being clear and free from dissention. It was wanting to been projected on a promoto-plus security. And thus I whiled soon the verning in Wadou's company as the endoussite(apt societies of our the different feeture of the second of the second of the different fee-

But here I find myself digressing from the selfappround task which I have set, the narration of the Message front Space, which has created vo much interest and discourses in various splentific circles here and alread Therefore I will pass on to the first episole, the

It was nowards the second week of my visit that we went to bod rather earlier than must see night, having planned a fishing trip for the next morning. I was sed-



denly awakened by a deafening roor, immediately followed by a terrife costs. At once I immed up and raced to my friend's room. As I switched on the light, I was harrified to see Wadson bring unconscious on the floor assidst the rains of his bodroom. A hasty examination revealed that his head had been his by a fulling picture, but in a few mirrotes he regained consciousness. Now that my anxiety was relieved, I inspected the damage more thoroughly. All the evidence pointed to an explosion. The bed and other furniture had been knocked over and great lumps of plaster had fallen from

the walls. Wastern was by now completely recovered from the shock and he come over to join me. "I colo had " he said. "Dan't you think me had better on around and examine the rest of the house?" "If you're all right, I guess we can. What, do you

"I can't imagine. I don't keep nitroglycerine or dyramitt lying loose around here. Might have been an earthquake," said Wadson, "An earthonake world have lasted longer and besides,

my room wasn't even touched. If it were an parthauake, the entire bonse would have been demolished." Too then a large piece of plaster fell from the ceiling, narrowly grazing my arm.

"We really ought to get out of here before the whole thing comes down," Wadson observed, "We will probably find the cause when we investigate." As we samped outside into the corridor, the full extent of the damage became apparers. That section of the house near my friend's room had been almost exceptetely destroyed. So far we had been unable to assign any cause to the de-

"It's fortunate," said Wadson, "that the lab waset's rained. As it is, there is still enough of the house left to Eve in "

"You seem to take it pretty calmly." I prowered. "It can't be helped and we might as well make the best of it." And with that we continued our inspection. The docreay at the end of the hall was blocked with fallon débris which prevented our further progress in that

circrition, Thereupon we turned to another opening. "It seems to me that I small smoke," remarked Wadson, "and I believe it comes through here," industring the charmeted doorway. Even as I looked I could are faints "You're right," I said. "The place must be on fire and

we had better get around there at once." In a few momeets we were out of the corridor and at the other side of the door. At first I could see nothing but cholden, blinding corrects of smoke. However, the gray will was to set a clearer impression of the wreckure. The roof above had been crashed in, leaving an irregular opening facing the sky. Just below it was a similar hole in the floor which now revenled itself as the source of the smoke. We descended to the ground floor. Here the vapors were almost overpowering, but by the aid of hastily improvised one masks, made of wer towels, we succeeded in approaching the suffocating area. There, in the very center of the swirling wreaths of woos, we

were astenished to see an enormous steek of red-bot metal amouldering in the rains. "A meteorite!" The thought had occurred to both of us simultaneously

"We had a narrow escape that time," said Wadson, "It might have crashed down on one heads just as well est city for a segrad of workmen to repair the damaged

few buckets of water, we were able to epench the last sourles and flames around the great probin-By this time the metallic reson had cooled to such a degree that we were able to make an examination. With great care we detached from it the clinging bas of plaster flight through the roof and carried it into Wadson's laboratory, where we deposited it on a bench. Even a superficial analysis of the substance was

as here. There isn't much of a fire, fortunately, so we

won't have any trouble in that respect. And now I'd like to make an analysis of the meteor." With the aid of a

enough to show that, as in the case of almost all other meteors, it was metallic iron of a fair degree of purity. My friend, however, was still unsatisfied.

"I'd like." he said. "to make a soccroscosic examination. That would be the quickest way of determining whether there are any other elements mixed with it such

as carbon and silicon. Accordingly he made preparations for his analysis His method was very rimple. He removed a small portion of the metal and bold it in the flame of a hydrogen

blast-lamp until it was red but. Then he examined it with a direct-vision spectroscope "Nothing unusual that I can see," said Wadson, "There are faint traces of sodium. Of course there must

have been more of that element priphable has it was mostly humaed up in passing through the atmosphere. Or wait, I think I see something. It looks like a slight disthe instrument, though. However, it may be semething I'll try snother spectroscope," Wadson rose and walked to a near-by cobinet where he kept his more delicate pieces of apparatus. He took another spectrospop and through it secred intently at the glowing metal.

"Same discolaration," he said. "I think I'll take a specimen from popper the center of the meteor," We drilled a large hole to the interior and succeeded, after much labor, in extracting some borings from the bottom This, too, he submitted to a spectroscopic analysis While he looked through the eye-ciece of the instrument his face changed. First a puzzled look, then a glenm of

triumpi "Bill," he said, "I'm pretty sure I've discovered a new element Just come here a minute." He bunded me the spectroscope and hade me examine the elegator bit of metal. Without a doubt be was right. Close to the star-

row sodium line was an unfamiliar band of orange. "Yes, it looks as through you've discovered a new tle-We'll have to call it 'wadsonium' in your honor. from the Solar System at all, for of all the citatents

found in solor meteors so far, not one had been previonsly unknown on the earth." "That increases the value of the discovery," told Wadson "Now I'd like to separate some of this new element from the others and determine its properties, both abysical and chemical."

BY this time it was almost four in the morning and excitement, but it was only with the greatest difficulty that I perseared Wadson to leave his meteor for a while

When we got up the next morning I wired to the near-

Meanwhile I spent most of my time worthing Wadson's proceedings in the laboratory. With the skill and satisfies of the true scientist he was evadually arriving at a number of important conclusions regarding the tained its atomic weight and was not a little surrorised to find that it approximated the compensatively large number 327.81. It was about three days later that he amounced that the atomic number was 106. He was radiate

rate work, would never think of attending to such trivial

with for. "You see," he explained, "this indicates not only one unknown element but a whole series of them which must exist between urnaium, which has an atomic number of 92, and wadsonium, whose number is 106. Fourtoes, in

fact. However, due to their high atomic weights, they are probably very unstable and that would account for their absence from the earth at the present date. It may that unusion does to radium. Of course then it would very likely have a large half-period and there might be

traces of it somewhere on this planet that haven't been found yet." "How do you account," I solved, "for the fact that almost all of the wadsenium came from the interior of

the meteor? If you renumber, meximens from the serface only contained minute traces." "That, " said Wadson, "is a matter to which I have eiven considerable thought. My theory is this. The motore must have originally consisted of wadsonium only, but during the course of its wanderings through space it encountered wat numbers of very tiny meteorites, cosmic dust as it were. These syndually synvitated

towards it on account of its superior mass which, previces to its passage through our atmosphere, must have been engagens. Now you may picture this life change of wadsonium embedded in a tremendors shell of infinitesiand particles, largely consisting of iron. Then, as it traversed the carth's atmosphere, the mass borns to slow and finally to fuse. The wadsonium at the center began to spread itself through the entire mass by diffesion. But before this process had an opportunity to set name than a start, it hit the surface of our planet and slowly

cooled, with most of the wadsonium still in its original clace." "That's splendidly worked out, but . . ." "Yes," interrupted Walson, "it's only a hypothesis and there are a great many 'hete' in it. Anyoney, it really doesn't matter very much. The important thing is the

wadsonium which I think I have succeeded in separating almost completely." With a smile he held up for my inspection a small glass-scoppered bottle which was about two-thirds full of a silvery metal looking just like magnesium. But there the resemblence ceased. Magnesium is remarkable for its lightness, while the half-pint or so of wadsorium smst have weighed almost twelve pounds. In my sur-

prise I nearly dropped the bottle. Wadson smiled. "Heavy? That's the offeet of the high atomic weight." "How does it behave chemically? Would you call it

an active element?" "Rather active. It decomposes stram at high temperatures and displaces hydrogen from cold dilute hydrochloric scid. In the air, as you can see, it forms a thin film of the oxide which prevents further corresion. It's

times as ald as this planet. No doubt, as I said before, there are considerable quantities now existing, but they are most likely to be found below the surface. Than the man in change of the repair work came in to ask about one or two particulars resumbles the record struction and our conversation was broken up. As I had to drive into town later for some symples that were

but my friend continued working in his laboratory even long after I had gone to bod. The next morning he was julilant, although pale from lock of sleen.

"I have discovered," be informed me, "that wadsonium possesses a new and astounding quality which I had not previously suspected. I among you know that the electrical resistance of selenium varies as the intensity of the light falling on its surface increases or diminishes This present has been rest to various uses in a limited way such as turning on lights automatically when night

falls and so on. Now the electrical resistance of washonirra is also variable, and quite by accident I found that it depends. His scienium, on the influence of electro-marnetic waves; but these waves, instead of being of such an extreme shortness as those of light, are between one and four meters long. Don't you see the significance of that?"

"I wonder if it mishes't be applied to radio in some

way. I understand they have been doing quite a lot of experimenting in short wave transmission recently." I looked immiringly at Wadson "That's inst the idea. You see, I plan to have a wadsorium cell in series with the incoming tuned signal. The

ability of the cell to conduct electricity will yary with the strength of the radio wave. The rest is obvious, "But that is reactically what happens in a regular radio tube. A very alight change in the minus potential of the grid produces a great abgration in the place voltage. While the principle is different, the general effect is the same.

I fail to see how your odl is going to revolutionize the radio industry," "You are inspetting," said Watson, "the superior sensitivity of my device. The vacuum tube is really a crude affair. The necessity of using a heated filtement to provide the electron stream imposes a good deal of countieation. Some radioactive substance such as radiom wight take the place of the filament as the data ensurations are really a flow of electrons. They could be separated from

the other rays by respects. However, an arrangement of this kind would certainly increase the cost and for that resoon would not be very practicable. But I think you will find that the washanform cell will be much superior to the ordinary tube " Then he went to his laboratory where he had spent nearly all his time since the fall of the meteor.

T was on the following day that the first wadsonium rell made its songerance. After a solitore morning walk I visited my friend in the laboratory to see what procress he had reade. He was bending over something on a beach which absorbed all his attention. I called but he did not seem to hear use. Then I noticed that he was wearing a pair of headphones. As I went over to him he removed them while he made some adjustments on his you think there is the least likelihood of this occurring?" Wadson smiled. "Well," I said, "what's new?" "I see you have been reading the Sunday emplements

Wadson held up the object on which he had been work-"Here," he said, "is a wadsoriron cell," It was in the form of a glass tube about six inches long and two inches in diameter. The top had been drawn ove to a point and sealed off while the bottom was tapered so that it would just fit the UX radio tobe base to which it was attached.

I took to be wadsonium. Is there a vacuum meide?" I asked

"No. lust nitrogen. That is because I found out that the film of the oxide which forms in the air has in some way a harmful effect on its sensitivity. It was easier to

fill it with nitrogen at atmospheric pressure than to go to the trouble of exhausting the air from within. As you can see, there are four terminals. Two of these are connected to the incoming signal while the other two are connected in series with a "B" battery and some sort of cone or load-speaker. It happens that in addition to my

twelve take set there is a smaller one which I beworks alone just for short-wave work. With a few chooses I believe it will suit our nursose exactly." In less than half an hour Wadson had made the necessary arrangements and we were ready to test his new tube. The set was specially designed to operate at a range of one, two, and five and a half meters which included those lengths influencing the warlsonium cell.

It was not without a certain excitement that I guard at the core speaker which had been connected to the set. My friend turned the dial beginning at four meters, and gradmally going down. At first there was nothing but a low humming sound. I asked Wadson what caused it, and he began to say something about induced currents in the

cell when the monotonous drone was suddenly broken by a sharp, irregular crackling. He turned to a lower wavelength. Nothing, Again he twisted the dial. Still nothing. By this time he was

down to two and a quarter meters. "You see," was his comment, "there are very few transmitting sets working on such very short wavelengths. Possibly one or two radio cathusiasts are trying it for the sake of the novelty. Of course if wader, irm is ever found in sufficiently large quantities, and it wasforming cells become popular, then all of the present broadcasting systems will be forced to change to shorter wavelengths. In previous experiments I found that it is possible to differentiate between two signals artificially produced in the laboratory when their wavelengths are very close together, thanks to the wadsomen cell. Therefore, there will be little fear of interference, such as might

rease of three and a half meters. I have succeeded in completely accounting two signals when the difference between their wavelengths was less than one-seven-huadrouth of a moter and I have no doubt that he the god of new improvements I may do better yet. Well, I don't thick there is much use in going down any more until we build a transmitting set which will work at such low

wave lengths." "By the way," I said, "while we are on the subject of radio, I have been bearing so much about the chance of receiving a message from Mars which is surposed, by

in the preympers. As a matter of fact, recent evidence does not seem to confirm the earlier views as to the possibility of the planets being inhabited by intelligent, reasoning beings. What is more, any radio opposis they evold send us would most probably be unable to peretrate the Heavyside layer unless they were of an exceedingly short wave length " "Your last objection would be admirably answered by

the special qualities of the wadsorium cell," "That's right," said Wadson, "all we need now is a ratio operator on Mars. Well, it's petting late now. Perhape we had better go to bed."

I fell asleep almost immediately and it somed only a few minutes later that I was awakened by Wadson. As I turned sleepily around I could see that he curried a flashlight in his hond.

"Bill," he whitesered, "I think I heard voices in the lab. There must be burglars there and I hate to think of my precious wadsornum cell being ruined by some careless crook. Here, take this," And he slipped an automatic into my hand. Together we stole silently down to his laboratory

Unmistakably there were sounds of voices or rather of a voice. It was an amusually high-nitched tone for the proverhially stealthy thief. The language was unfamilian We tipted into the laboratory through a side door. It was dark. I drew the oistel and Wadson held his torch in readiness. Suckienly he snapped on the light and the brilliant beam darted around the morn "Hands up?" I shouted. Nothing bayconed and the

voice continued to prattle away. Wadson switched on the room light, hat we saw no one. It was only then that I realized the source of the sound.

"The radio!" We stared at each other for a moment and beens to burt "Well, Bill," said Washon, "that's one on me. I much

have left the switch on by mistake. But I would like to know where that voice comes from. I certainly never heard that language before. It might be wise to take an impression of it. I have some of those repeat-avoice chapperanh records with which you can do weer own recording. In that way we can get an accurate copy of the rest of the speech." In a surprisingly short time we had the phonograph with the blank records taking down the talk. About an hour and a half later the writer stopped.

"HE next day we drave into town with the records THE next day we drove mo were who as friend of and submitted them to the inspection of a friend of Wadson's who studed languages as a hobby. He had mastered no fewer than forty-three different tongues and be expected, if all transmitting acts were to be limited to a dialects so we had no doubt that he could enlighten us as to the philological classification of our stronge specimen. But he was as baffled as we were. However, he was very much interested when we told bim the winds story and he promised to come to the laboratory that night to listen to our myseifyme speaker should be talk seein Before returning, Wadson bought a Heral supply of the blank disks to enable us to round whatever might be

Wadson's friend came up at eight o'clock and was led at once to the laboratory. The voice started very much earlier than on the preceding night. At a quarter of some people, to be inhabited by intelligent beings. Do nine a low musical note issued from the cone as though a piano key had been pently struck. After an interval of five minutes the mysterious voice spoke again. The tone was rich and clear and the speaker petered his words evenly without any trace of emotion. We had the phenograph taking down an entire impression of the mes-

After an hour he suddenly turned to us and said: "It sooms to me that I have beard this before. Yes, I am sure now. The person delivering it evidently considers it of importance, repeating the same speach every night. This thing has me puzzled, I'm afraid, for I

carnet properly these words with any hornage I have ever heard. If you don't mind, I would have to have a complete impression. There is a certain Professor Harold Rice of Oxford, who is spending his summer near here. As his field is the Science of Laurenness, I am sure he will be able to give us a clue to the identity of Mr.

Wadson readily assented. Accordingly the records were placed in the hands of Professor Rice who promised to give us his expert opinion within a few days. A week later, when my friend and I were absorbed in

the intrinsics of a choss game, we received a visit from the philologist accommunical by Professor Rice. Both of them seemed to be keyed up to a birth pitch of excita-

"Wadsto," said the former, "the thine's storendoes, After puzzling over the records for almost a week. Proferour Rice was unable to find any corresponding known language. In short, he was forced to conclude that the sounds originated in another planet." Washon nearly jumped from his chair,

"What?" he cried "That's right. I was surprised, too, but there's no other way of explaining it miless we are going to suppose that we have been the victims of an elaborate neartical iskewhich seems hardly likely. You're sugar to be fameras now, old man, whether you like it or not The Professor will tell you how he was led to this conviction."

"It really wasn't very difficult. The use of the radio clearly indicated that the sender must belong to a highly progressive race. This at once removed the necessive of considering the hundreds of dialects in use by the various suvere tribes and thus considerably narrowed my search. I was unable to find any source, even remotely corresponding. Of course you may argue that this bearmen may be a secret one, in use by some society or other. But then why should such a group go to the troshle of learning a whole new language, when a simple code would seffice for transmitting radio messages not intended for outside ears. Then, knowing the gigantic power of your radio set, I thought it very likely that the sender was the inhabitant of another planet."

My mind was in a whirl. So my chance remark to Wadion a few evenings back had some foundation after "I think it would be very interesting to try to decipher this message. You know, it may be of importance. Don't

you think so, Professor?" Then I suddenly realized that the philologist had rust been avealeing "Oh, beyond a doubt. It ought not to be so very hard, We have material enough to work with. It will be an enjoyable way of spending the vacation. Come to my house tomorrow morring, and we can make arrangements. Mr. vise you to encourage anyone che to listen to our planet-

any communicator.

"A little professional icolousy," I threads. "He is airaid someone else may succeed in decishering in before

As it was late our cuests decerted. "Wadson," I said as soon as we were alone. "I newe

passected that one wadsenium cell was so powerful. At the time when you first tried to use it, you only expected to receive terrestrial signals, and yet the message we heard must have come from a point many million strikes away at least. The wadsonium sense be thousands of times more sensitive than we ever supposed."

"Yes, I thought of that, too," said Wadson, "The metal may be under some external influence. We might go over and investigate." We did, but at a first plance there was nothing out of ordinary that we outd see. Then at my auggestion. Wachen closed the switch and, as we had not changed the dial setting, the unknown voice metantly projected itself into the room. My sleeve accidentally knocked over the cone speaker. The flow of words and denly stopped.

"What's that? I must have pulled out the connection "No," said Wadson, "you didn't. Something else went wrong." With those words be picked up the cone and replaced it in its original position near the radio. To our

immense surprise the strange voice auddenly resumed its tireless monotone. Wadson laughed a fittle. "I see it now. It is the action of the magnet in the speaker on the wadsomum, I'm pressy were," He nicked up a big horse shoe magnet and held it near the wadson-

ium cell. The increase of sound was marked. "I never suspected anything like that before," he exchained. "This wadsomen is full of tricks. At any rate, it coess a new field for investigation." As if to prove his

last words. Wadson took off his cost and at once procooled to test this new physical property of the metal with what materials he had. The net result of all his experimentation was that the extent to which the wadsonium was affected was inversely proportionate to the source of the distance between it and the marnet. IGHT days later we were the recipients of another

E visit from the philologist and Professor Rice. After runny long hours of autonive work they had succeeded in almost completely translating the message. When I try to describe the excitement at this point,

words fail me. The whole thing was tremendous. The subsequent shock produced when this veritable hombshell was thrown into the civifized world is well within the memory of most of us. Wadson's laboratory at once became a Mecca. Had be wished, he could have sold his wadscuium at the time for over \$15,000 per milligram, but he generously gave all but a small specimen to the Bureau of Standards where its various properties astouished the staff. At the present time, however, it has been ascertained that considerable amounts of this metal are to

be found in the earth, m some places, at a distance of less than four miles below the surface. Plans for its recovery are now under way. All of this was secondary to the worldwide interest Which was created when the translated message was route

public. The planet from which it was sent, far from being Mars as I had at first suspected, was proven to be a satellite of one of the remoter stars of the Milky Way, whose distance from the earth is only to be expressed in thousands of light years. This last fact is suggificent. for it means that all of the events described took place many centuries are said the voice we beard speaking belonged to a person, dead since the time of the Pharaolis. When the faintness that a radio signal must possess after traversing that great sold of space is considered, we can only wender the more at the extreme sensitivity of the wadsonium.

The translation of the Message from Space which inilows is undoubtedly of great importance. It suggests new and terrible methods of warfare whose almost unlimited destructive potentialities would be an answerable arresport for World Peace. It brings to mind the possibility of finding on other planets than our own advanced forms of life, with which we may some day hope to communicate. But it has always seemed to me that the most important angle from which to view our interstellar message is that from which the sender considered it when he transmitted it, namely as a warning His ennstart repetition of the whole speech would alone be a sufficient mark of the extreme gravity of the situation presented in it.

However, I will not venture any more private original on the subject, but I will leave the reader to form his own ideas after his permal of the Message from Souce.

While reading the following it should be keet in mind the words have been found to here on there of the words there there been been to have on

The Message from Source PRIXTON LESTEX of Astron. on the last line

ine recessestative of my civilization. The following history is intended primarily as a warning—a wanting to overy planet in the original on which exists civilization. And for this reason it will be eromend twenty-five times at intervals of one day. Every civilized astion which this message may reach is continued to be tants of a dark star which is as a distance from us of 120 000 000 portors 5

Before relating the events connected with the exposest of Astrax, it would be advisable to vive some soull account of the state of our civilization at the time of its downfall, so you may better understand the existing conditions.

but one aim in life-the perfecting of Astraician civilization through the salvancement of science Countless years ago we had tapped the wells of anticcular energy This proved insufficient to satisfy our demands. Atomic energy was released long afterwards by whose aid we performed mighty engineering feats which would have seemed impossible before. The whole surface of Astrax was practically made into one huge city whose sources rose bundreds of feet into the sky. Gant air liners plowed the upper layers of the atmosphere, lowled with freight and passongers. With our atomic energy we were able to build great space-filers with which we colo-"Travelute"s Nos. The weed acrise enals traveleties had it would are to correspond to our terretried term, field poor. The light year of Januar would, of corres, here a different raises tolks our corr.

sixed several neighboring planets. Down below, at the lowest levels of the city, dwelt the scientists mon whose labor rested the mighty structure of our civilization. Our government was simple. A Planet Ruler was relected at results intervals of five years by a council of one beendred who also acted as an advisory committee. Its decision

At the time of the invasion I was a sub-inspector of the landing stages for the interplanetary vehicles. This position kept me constantly upon the upper level of the city. My work was most important although easy. Each day I personally examined each of the street in my division. This means that I had to make sure that the entire surface was free from any obstruction, which might injure a flur on impact, and that the crew whose duty it was to take charge of the ships on their series was afest and reads The mechanism of these space vehicles was not at all

complicated. A method had been perfected for increasing the power of magnetic attraction to an unprecedented degree. The power of repulsion between like poles bod been similarly developed. Reneath the lowest levels of Astrax a great magnet of gigsentic power had been placed Since our scientists had found a way of concentrating the magnetic forces of attraction and repulsion to the form of a ray, it was a simple matter to copin store skins with such says. One of these corresponded to one pole of the marnet and the other to the other sole. When the fier was pavigated, the marget formed the base of a huge triangle of which the flior was the vortex. The ship instruct of the rays. It may interest any scientist who is bearing this account that the experiments first made force is around in one direction, there results no count force exerted in the opposite direction. The force used was an explosion. Small parcels of explosive compounds were placed at various points about the surface of the vehicle. The detoration of any of these would cause the fier to move in the direction opposite to that in which the explosion was applied. Unfortunately, the resulting rases, due to the intruse cold of interstellar space, first

liquefied and then froze solid, elogging up the explosion

chamber. This necessitated a system of artificial beating which acrossed practical actory. Hence the adoption of the later method.

The fliers were in the form of long cylinders with homisofurnical ends. One ray machine was placed at each extremity but both were controlled from a simple cubin as the from. There is little to be said about the From the earliest historical times, the most important further details of their construction, except that they insubject of our intellectual provisit has above here access. duded every convenience for the benefit of the occurrents. On their arrival from a voyage they would maneuver so as to gain a position directly above their respective landing stores. Then, slowly shutting off the repulsion rays. they would sink to the surface permitting those within to emerge. As the outer envelope was a vacuum between two layers of a special material, it can readily be seen why it was so important that the landing stages he kept It was a magnificent sight, especially in darkness, to see those giant fliers durt in from distant planets marn stages and finally settle down to rest, while their lights.

"Note. This corresponds to Newtyc's third her of notice. The famous Cashind reduct, working on this private, but true her suggested as a more of planetary strengther,—C. H. Watson,

THE first warring of the invasion came one night when it was my duty to report to my secence, the Superintendent Inspector of the Associated Interplanetary Landing Stages of Astrax, to coote his full official title, His name was Plutor Onnex AOSX, which latter symbol denoted his rank. He was much perturbed over semething, although I did not dare to ask him what was wrong. On his deak was a chart which automatically

glearning in the darkness, cast weird shadows over the

whole scene,

recorded the positions of each of the space filers in service at the moment. For a while I stood in silence while he studied the object before him. "Prixton Lestex AP3D," he said, addressing me by

my full name. "what is your proort of the condition of the landing stages of top level 885, section OR97, division X13486?" He invariably used this complete formula, al-

though he last known me personally for a long time "Everything is functioning satisfactorily, sir," was my reply "Hum. I'm what was at least can say so." With this enignatic remark he absently suppost the conversation and bent again over the object on his dealt. Thinking

that he wished to be slone. I turned to the door. "Just a moment, Lestex, I may wish to speak to you in a short time concerning some important matters." I returned to my former position before his desk and waited respectfully until he was study to address me. For a time he did nothing but case intently of his chart, checking the various positions of the space fliers by means of a table which he kept constantly on hand. Beyond a self a while, he turned to a virinhous which recorded

the image of the party at the other end. "Section QG12, division KM2937," he called into the instrument. In a moment the face of the official in charge of the indicated division appeared in a small disk mounted

"Mentel Projeck ADSC," said the Superintradent Inspector, "was will have a fast inspection flier ready for use at once with a crew of three. Include a Weston my

"Yes, sir." said Mentel Prolack, "I will see to it im-I may here explain that the ray machine passed was the invention of Dolor Wexton, a scientist of the lower levels. A beam directed from such a machine had the property of disrepting the attens of any matter with which it came electrons. The only substance immune was hudmorn.

which proessitated that the part of the machine from which the ray was projected be made of this gas in solid was beyond the atmosphere of Astrux where the cold of space kept it below the freezing point of hydrogen. Pletor Omnex then turned his attention to see.

"Prixton Lestex, I am about to entrust were with a grave mission. I have found you loyal and intelligent effort towards making it a complete success. Now come here," he said as he indicated a place at his side. I walked over to his desk and looked at the chart which he had been examining. The principle was simple Each flier was represented by a tiny dot of light which moved at a fate proportionals to that of the marking it indicated The chart was divided by a system of emerine lines.

"Source ship #A38E36, extor 216.45.72, lextor 45. "All right, now look at the position on the chart,"

"Exter 216.4294, Jester 45.70.L."

"You see," said the Somerintendent Inspector, "something is wrong. I tried to communicate with the pilot, but I could not not in touch with him. The marriet rays might have gotten out of order and that would explain the ship's being off the correct route. In my official especity

it is my duty to check up on the flier positions. If anything went wrong I would get the blome for it. This is the first time that the chart did not exactly correspond to the table. I should like to have this matter arranged without letting it get beword my department. I have, as you will remember, ordered an inspection flier with a Wexton my projector. These impection ships, that is the newer models, have a speed of 8,000,000 sectors per day which is much faster than a standard flier. You will, therefore, present yourself to Mentel Prolack ADSC, section OG32, division KM2973 with a measure which I will give you. He will put you in charge of the fiter and samply a every. It will be were duty to overtile state shim #A38B36 and find our what is wrone. The details will rest with you. If you encounter serious difficulties

shone sue at once. You may find the Wexton ray ma-

chine useful if you must any Drolls. That is all."]

saluted and left with the message in my hand The Dealls were the inhabitants of a rearly almest who had refused to adopt Astrakian civilization, but instead grew to be a warlike race. They had once succented in easturing one of our fliers. From it they learned the socrets of its construction which enabled there to build a flect. Hence all small ships were engineed with Wexase rays for protection. Mennel Prolock was busy when I arrived at his division.

but, when I sent word that I had a message from the Suprintendent Inspector, I was immediately ushered into "Where is the message?" he asked. I handed it to

"Are you Proxion Lestex?" he inquired "Yes, I am."

"WVX 168662004," he said. To this I replied: "4000%68WVXM." Mentel Proteck smiled.

"That's right. I see you know the pass-word. I suppose you understand your duties?" "Perfectly."

"Fine Here I have the fier all ready for use with a erew and Wexton my machine. You are to start at once. Goodby." He indicated the inspection ship, which I entered immediately. These was a crow of three within in addition to the operator of the ray machine. In a few moments I made the accusintance of each of them. Ioll

Randor RZ7G4 was the pilot, Raim Kortock C63Y7 and Mexter Brellion OS285 were mechanics whose duty it was to see that the magnetic rays were always in yer-

Tox. Ever and inter pointly reproper to sensing the tiple

fect order. Clenton Stretor R91B7 was in charge of rays, although it will make it hander for Stretor to use

I slid the door shut and in a memora the ship was on its way. Since it was enripped with an automatic chart such as the one I have already described, it was a simple matter to follow accurately the movements of the ship we were puriting. Constant reference to a table overvisced me that space ship #A38B36 was following an erratio course. Day after day we seed on, always reducing the distance between the two dats of light on the chart which represented the fler we were to overtake and our own. Inil Randor was a most excellent rider. It so honosped that just at this time a giant swarm of mercura had crossed the crist of Astrax so we were constantly

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menaced by a collision with one of these bodies, but Randor's skill always evoded the donner. N the third day I was awakened from a sound sleen by Clemno Streme. "I am serry to have disturbed you, sir, but I am afmid that there is a fleet of Droll fliers about 21,000 leaders (seiles?) ahead. I don't think we can everpe those for

they are surrounding us on all sides." This news anpoved me very much. Personally I would not have trinded a fight with the savare Drulls, but the ruccess of the expedition was of supreme importance. "Tell Jell Randor to put on full speed and try to break through their lines. Be ready with the ray ma-

chine in case he doesn't succeed."

"Very well, sir." Strotor saluted and was gone. In the meantime I reviewed the situation. Here we were surrounded by the Drails who would hardly lot us off without a battle. But I had orders from the Sunevintendent Inspector which admitted of no delay, so it would be impossible to turn back. We must go on. We stern equipped with a ray machine, it was true, but on the other hand, the Drolls had perfected an instrement, which projected a beam capable of raising the temperature of our fier to the builing point almost instantly by excising the molecular motion of its component substances. How-

ever, in space of this we mast go through By this time I could clearly see the enemy fliens in the distance with the sid of a telescope. Now the Drefts were only 8,000 lenters away and we were approaching them every instant. At this stope of my reflections, there came a knock at the door and Stretor entered.

"Sir, it will be impossible to pass those. The only way to avoid a fight is to retreat." At this lost word I shock my best decisively.

"No, Stretor, I'm not turning back. It will be up to you to clear a path through the enemy for us." "I'll do my best, sir, but if one of their heat cays gets us we are done for."

"All right. You had better go and tell the others to be ready for action." I lookof again in the direction of the Drulls through one of the windows and estimated their distance at about 350 leutors. Already I could see them during their terrible heat rays, but since they were only efficient at short distances we had nothing to fear from

I want down to the control room where the Weston ray machine was situated. Stretor was bending over the apparatus making some final adjustments. The pilot was standing next to the instrument board by which the movements of the flier were controlled. "Randor," I said, "I think it might be wise to adopt a rigger course. It might help us to escape their beat

"That's all right, sir," said Stretor, "T'll monage without any difficulty. Our escape is of more importance than a possible victory." Accordingly Randor made certain monone and I felt the firer every to and fm as it darted about in various positions. While it did enable up to chade their heat rays, nevertheless they kept us constantly under the place of the newerful searchbolts with which their stoor ships were entired. Since our exact position was always known, they could begin to close in on us and I saw that a time would come when we would no longer be able to dodge their rays. I signaled to Seretor to begin projecting the Wexton ray before our fores run too close. It was well that I did so, for alreads the flashes of their offensive weapons were coming un-

comfortably near. After a few moments we had the

satisfaction of seeing one of the enemy flect sufferly begin to glow violently and then completely eramole un-This opened a gap in the surrounding line through which Randor attempted to lead our flor. Unfortunately be was a morecus too late for another Drull ship rushed in to take the place of the one destroyed at the exact time we were passing through the opening. There was a terrific crush in which we were all thrown to the floor. When we root, the ship with which we had collided was gone. We were through the gap and safe. No, not entirely safe for Stretor had found that the hydroren attechnent of the ray projector had been broken off and at the moment erbetance in the ship. Therefore we raced soward as fact as the filer could carry us. For a while the Draile followed an elessive continually flathing their heat rays But they musted us each time and gradually we drew away from our enemics, leaving them for behind, of our pursuit was only 45,000 lenters away, so we were able to slow up our read rush and thus gain an opportunity to inspert any damage that we might have numered during our fight with the Drulis. I was re-Beved to find that nothing was broken or injured, with the execution of the hydrogen ray projector. Since I expected to obtain more hydrogen from the space ship

I made an effort to communicate with the ship ahead of us, but was urable to receive any restorse. For a moment the possibility floshed across my saind that the erew night be dead, but then I remembered that the natomatic controls would have bent the flier to its eograe in evert of such a mishap, and as the pilot room was securely locked on all of these hir shins, more of the nosseneers could have interfered with them. But the filer was dearly off her normal course and the deviation was continually increasing at such a regular rate as to make it appear the work of some intelligent agency. Meanwhile we had drawn so dose to the space ship that it was only a matter of moments until we would be altournide of it. We were just about 137 Jestory behind when Randor turned to me with an

when we came up with it, this did not warry me great-

ly. Now we had only 32,000 lessors to so before we

opertock the flier, so Randor again reduced the speed

of our vehido

"Sir, our filer does not respond properly to the con-"Are you sure?" I asked. "Yes, it would seem as if sorinone has cut down on the power of the magnet ray. If I may venture to surgrest st. I would advise that you try to get in touch with Astrax and call for an emergency ship as the con-I went to the acund-penof phone booth and lifted the instrument from the table on which it was resting and pressed a small lever. There was no response. The redicator light which slowed when the pitons was ready for use was not lit. I examined the instrument very carefully and at last came to the conclusion not only had the marget rays been weakened, but the electric power impulses which were transmitted to us from

I went back to the control morn. "Randor, it seems that you're right. The sonce phone doesn't work pirhough it's in perfect condition. There doesn't appear to be any power being transmitted from

Astrax. What is the course?" "We are moving parallel to the ship ahead of us although at a presser speed and I can't do anything to change our direction. There is no doubt that our filer now, in addition to the marget rays failing to function, the power impulses are ceasing to reach us, and we are altogether cut off from our planet. I can't say that the prospects for the immediate feture are perticularly al-

"In that case, there is nothing we can do about it so we may as well take a rest. Then we will be in better condition for whatever happens pext." Before I lay down I walked over to the space chart to meretain the position of the flier ahead of us. I was rather startled to find that it was now only 17 fentors away, although an inspection of the respective motions of the two shops confirmed Randor's assertion that they were traveline in paraftel courses. Then I sank down and fell asleen, How long I slept I have no idea, but judging from the distince covered during that period the time must have been considerable.

THEN, jarring my sleeping brain, came a load, impatient clanging of the space phone bell, while the indicator light continually flashed on and off, showing that someone was at the other end of the line. My first thought was that the power impulses had reversed operation and that the call was either from Astrax or from the ship shead of us.

"This is Prixton Lestex in charge of inspection flier #X65U39. Who is spealing?" The voice that answered aroused within me the most vivid sensations of fear of, and hatred for, the owner, Even with the first two words I was sure that those hard. metallic accents did not belong to an inhabitant of my

planet. The subsequent sentences confinned this inreition "In order to avoid any future misunderstandings," the voice began, "I might as well begin by telling you that under the power of a controlling agency completely foreign to your civilization. The world from which I come is even far beyond the distant planet which the flier you are ourseins had so its objective. In short, I am an inhabitant of a dark star which is about 170,000,000 sorters from year Astron. My race cornering what are broken as the Super-Intelligences of Extress. I sucross you need hardly be informed that you, and those with you, are now our prisoners. Your progress is now being neyou are following will shortly lead you to my planet where everything will be made clear including the reasons for your capture. Goodby." With that the voice suddealy storeed. I was furious. The idea of being contured in this outragrous fashion by a race of whom I had never heard, without a chance to do anything about it! At once I called in all the rest of those on the flier and accusioned them with the communication I had just their science must be of an unusually high order to enable them to get in touch with us so readily and at the same time to be informed of events occurring millions of seriors away. I thought. And then, in addition to know our hoguage.

It is needless to give an account of the succeeding days which named until we reached the planet Extrace It was a repetition of what has just been recounted

alternate accordation and dammation regarding the Super-Intelligences of Extrose. On the twenty-first day of stoce flying we were aware of a sudden increase in the speed of our vehicle. We looked out of a window and were astonished to find that the customery on rooms of sturs had vanished. More careful observation showed the whole sky swallowed up in a lugg, black bowl. This I correctly supposed to be the dark sun Extresc. I hastily consulted the space chart and was relieved to find that the other filer was still in its relative position.

Then our studden acceleration began to decrease as we were poutly drawn down to the surface of Extrate-From a nearer position I could see that portions of the blackness beneath us were illumined such a dolf radiance, which became visible only at a close range. These areas of light were roughly circular in shape and, as our ship approached one of them, they proved to be the openings of great shafts, which apparently went far below the surface. At this point the bell summoned me to the space phone and the strange voice again began to

sneak; "These deep shafts which you see extend abrest onequarter of the length of the diameter of Extrose and then open into our cities, which are far below the perface They are so situated because most of the atmosphere has gravitated toward the center, as this planet is recreed through and through with deep, cavernous pits which occupy a considerable amount of the total volume. Thus we were connelled to follow the atmosphere as it gradually left the surface to move in toward the interior. You will not be able to leave your ship until you reach the hottom of the shalt which you are now descending. There

is nothing you can do bee to wait till you arrive. you do arrive, I will send further instructions." Immediately I told the crew of this incredible measage. A whole civilization buried hundreds of Jentora

below the surface of a planet! But that time our own affairs were of more direct interest to us. On looking through one of the side windows, I could easily see that we were rapidly falling down the great shaft just as the woice had said. A glance at the space chart showed me that now the other filer was only three leaters about of us. At least it was some consolation to know that friends Were so near

The descent through the shaft continued for some time, and while we wanted for it to cease there was a great deal of discussion and speculation concerning the purposes of the Super-Intelligences of Extress in conturing two Astrakian fliers. Randor thought it might be some sort of a boox, but I was not of this organism. In all seemed very much in earnest. With this idea in mind. I excefully enjoined the crew to show no signs of hostility when we arrived at the city. Force could be of no avail in the very stronghold of the enemy. Only by gain-

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ing their confidence and trust could we hope to improve our situation. To this they all severed. Arain I looked through the windows, only to perceive that we were still traveling down that seemingly interminable shait. However, through the hottom window I could see a trint glow, and then I knew that the city was close at hand In a shorter time than I had expected the ship came to a sudden halt, and I saw that we had barded on a creent platform surrounded by rows of powerful listes. The other fire was so close that I was about to leave our vehicle and run over to it when I hard the bell ring

again, calling me to the phone. "You are warned." the voice heave, "not to leave the filer, under any circumstances whatevers, until elses permission by me. An intringement of this command subsequent proceedings through a window. They will concern the other flier which came with you." As before I informed the even of what I had just beend Then we all went to a side window which faced the other

space ship. For a while the platform was vacant except for the two fliers. Then for the first time I was un Extracian. I thought I was presured for any suct of strange creature which might appear, but the thing that amazement.

MAGINE, if you can, a small, green sphere glowing with a necessar phosphorescent eleum and propelling keelf by darting slender purple rays from various points on its surface. The Super-Intelligence slowly associa towards the other flier and halted a short distance from the door. For a moment nothing hancened. Suddenly a small and disk of high superced men the ton of the sphere. Somehow I felt that it was concentrating all the cower of its mighty brain men the occupants of the space ship. So great was the intellectual sower of the Extrosian that even I, although not the intended recipient of its mental communication, could sense the command which it wished to convey. Thuse within the flier were ordered to leave it and to come down to the platform. The door opened and one by one they came out and climbol down. I recognized some of them, since their flier did not use any of the landing stages in my

division. As they left the shelter of the ship they sufferred no ill effects. From this I eathered that the stmost here and the provitation of Extress were very similar to these of Astrax. Then the pilot of the ther and the Extrosion earried on a mental conversation. By this I mean that the intellectral canacity of the Green Sphere was so great that it was able to read the thoughts of the Astrakian even before they were translated into speech. On the other hand, the ideas of the Super-Intelligence were so forcibly transmitted that, even to the comparatively dell mind of the pilet, they were elect without being orally expressed. Of course I could not read the

were obvious and, therefore, I can only give a one-sided "Dumnos Veltrus, pilot of space ship #A38836," be gan the Extresion, "as I have previously exclained, won have been made a prisoner, after with those with you.

to do so." From this preliminary speech I knew that those in the other fier had received the same messages from the Extracions that we had. At once I was all attention, for now I was to know the snawer to many perpleasing questions that had always been troubling me ever since the beginning of this strange adventure. I eng a hasty glance around my ship and observed that the crew was no less interested in the proceedings than L. "Our whole surnous in bringing was been," resemed the Green Globe, "was to ascertain whether you would he able to survive the Extresian conditions of temperature, atmosphere, and gravitation. Although, as you can readily see, the experiment has been an unembried succose, its object must still be a mystery to you. We on Extrose have always been a . . . What! Do you dare to interrupt me to say that was object to your detention? Do you think I brought you here because I thought you would like 2?" It was picln that the pilot must have been mentally protesting about his capture so vividly

of the Super-Intelligences of Extrose. I did not, at the

time, make the reason very clear. Now I will received

he decided, at last to continue his explanation, rather than permit his anger to overmoster him. "We on Extrose have always been a most adventurous mor, although you might not draw this conclusion from a cursory glance at our securingly ineffertual bodies, these globe-like objects. We have certain mechanical extensions which enable us to do every things which would be beyond the power of an intelligent sphere. For example, we could convey to you shoken words over the sence those, although we are without month organs But more of that later. As a result we have made quite a number of phasetery conquests, somewhat in the same way that you have done. However, nearly all of them have been very unsatisfactory. The atmospheres of the

that the Extrosian had lost patience with him. However,

imaded planets were not like that of Extrose. We were forced to use certain arrangements for taking some Extrosist atmosphere along with us. For even an Extrosion needs pir, as the cells of his riseres must be constantly burbed in this fluid. This unforturate defect removed any prospect of their colonization. This has immedial us to centure you and your space thin in addition to the other one which came with you. As wa can assurently use our atmosphere without inconvenience. we will easily be able to adjust curvelves to years. I understand that this short account will leave many thirtee still encuplained. How did I bring your space ship being these apostions will have to remain unanswered Let it suffice to say that to a Super-Intelligence many things are possible that to an ordinary round would seem incredible. Now that we have found that the conditions existing on your planet, which you call Astrax, are of it. After all, it is a case of the survival of the fitteet. No doubt was wonder that I divulge all this so casually,

her you may remember that your information will be of no avail, and even if you were to escape and warn your planet, it world not help in the slightest degree. That's all fur the present." Then the thought impulses of the thoughts of the pilot, but those of the Super-Intelligence Green Subere ceased and the red spot laded and van-I was stormed when I realized the full import of the message of the Extrosian. There was absolutely nothing to be done about it. Escape was impossible. Even if we not through the shaft, they could easily draw us back as they had done before. I surveyed the group on the platform. For a while they stood silent. Then suddenly Dumnos Veltran acted. With a cry of mingled race and forgetting that that powerful mind could easily good his thoughts and anticipate his actions. All those with him followed, and before I could say a word, the crew of my filer burst open the door and inited their countrymen. I alone staved back, realising the futility of such an attempt. The Sphere remained metionless until its attackers were almost upon it. Then the red spot sprang into life and the glosm on its surface oriented and brightened. Instantly every Astrakian on the planform was stricken to a statue-like more right in the middle of

a movement and drocoed to the floor. Then the Extrosian addressed itself to me. "They are all dead, killed by the power of mental sugrestion. I trust, for your own sale, that you will have the wisdom to venture no such attack yourself. The invasion of your planet will begin very soon. But now I must first accusing the members of the Sergeme Council of Extrese with the successful results of the experiment. I think you had better come with me, for if you are left alone you will prohably get into trouble and complicate matters." At those words I left the filer and alighted on the surface of Extrose. As I have said, the armos-

phere was almost exactly like that of Astron, and I experienced no discumfort in that respect. There was a peculiar, purgent quality in the air which I later learned was due to the seescare of a mis unformed on my planet. The Globe led me to a small chamber at the bottom of the platform, which we entreed. I could see nothing but a large, element square on one of the walls. My cantor seemed to concentrate all the power of his mind on this object. The red disk glowed as before and soon a ticture appeared on the square. I could discorn a dimly lighted room in which were two long, shelf-like chiects. On each of these was a row of Extresions. I took this to be the Sunrene Council which had been alluded to before. This room, too, had a square placed on one of the walls in which I could use the imore of the chamber in which I was. One of the Globes at the extrems and of the row nearest the square rose from his place and moved over to it. At once the end was which I knew so well began to gleam, and I surmited that the two Extrosians were having a mental conversation. But the thought waves used were so faint that I was enable to intercept them. It was soon over. The mumbers of

the Supreme Council seemed very well impressed with the news. Many of them, in their enthusiasm, started to move about the room on their ournie rays. The red spots on their surfaces glowed as they carried on excited communications. Then the picture suddenly vanished. The Sphere began to transmit more mental immuless. "You have seen how much the information was welcerned by the Council. I was told that the invesion of Astrax will consence as soon as all the Extracions are accuminted with the plan and the space ships are made ready. This will not take very long. I am to be put in charge of the expolition and you are coming with me in

the leading flier. It would be better for you so pemain in your vehicle while I go to make arrangements." FOR the first time I got an opportunity to mentally review the situation. Everything had happened so quickly and there had been such a sudden crowding of events that my mind was almost deced. It was returnily impossible for me to cutertain any feeling but hatred for even now were prenaring to take possession of my alance by force. And yet, at the some time, I realized that any form of emotion was foreign to them. Everything they did was the direct result of their adventurous spirit which knew no obstack. My countrymen, so ruthlessly was maddening to six there quietly while knowing of the terrible, inevitable doesn in store for my planet. That feeling of impotence was unbearable. The Extrodura were going to put me in the leading ship so that I could get a good view of the annihilation of the inhabitants of midst of my thoughts by the return of the Green Globe.

"I can see you are distressed over the disaster which your planet is going to experience so seen," it began Well, there's no use in worrying about the inevitable Why don't you take a more rational view? After all, there is nothing you can do to savid it, so wer might as well make the best of things. You will republic become issueed to Extresien conditions so soon, while you are with us, that you will prefer to return to this planet. So for you have seen reactically nothing of our scientific development. Compared to voors, it is marvelous." But I could not sympathize with this argument. Astrax was my home, the base of all my associations. Now it was to be destroyed and the civilization of which I had been so proud was near its end. But these points were beyond

the commonwhereign of the Extrasion "We are going to leave very soon now, so I will take you over to the leading slip." I was led to the edge of the platform where the Globe rested his weight on a small betten on the floor. Insteady a trapdoor swung open, revealing a long, sloping passage. As we followed this the door behind us closed automatically. The corridor was very smuch longer than I had thought and although I walked as rapidly as I could, the Green Sthere was impatient at the rate of our progress. But Ske everything else, the coasses finally came to an end. It opened into a vast plain, on which resound many large, gray shapes. I presumed they were space filers

The whole scene, at first sirlst, was one of extress own fusion. Countless numbers of the Green Scheres rushed higher and thirther as through in inversage of their death nations, but I know that, underlying that seeming serumble, was a well-arranged and efficient system. My own experience on Astrax had taught me as much. Near each of the fliers were vast, complicated masses of machinery which were loading materials and appoint into them. My emide told me that these were excepted by the concentration of the minds of certain Extracions when them. These machines were some of the "extensions" of which he had previously spoken. I was informed that no fewer than 160,000,000 Extrasions were going on the expedition. This buge mumber represented one-treth of

their entire expeliation. They carried no lethal weapons, relying wholly on their power of mental suggestion which I had already seen in operation. The following events may seem somewhat confused. I am airaid, but that is because in the sudden rush that

succeeded I had no opportunity to get a clear impression of what was happening. I had a vacue interession of my guide's calling me to the foremost flier, imo which I blundered somehow, while hundreds of Green Globes crowded in on either side. A door cleaned shut, and we were gung. I had a sensation of going straight up with

an Inconcrivable velocity. I knew we were ascending one of the shafts which led to the seriace. Then I reorived a mental impulse from my paids, informing me that I would find him in the control room. I located this after considerable difficulty and thus exceed the bustle

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and turmoil without. Here I saw the Extrotian mentally controlling a small instrument which, he told me, resulated the speed as well as the direction of the sense show I asked him to explain the means of propulsion, but this he refused to do, saying that it was a secret. However, was forced to admire the skill and ease with which he piloted the flier. He wiformed me that its velocity was so great that we would arrive at Astrox in one-shipd the time it had taken me to court that distance. The sine of the vehicle was about four times that of our howest ships, and yet the Green Sphere told me that compared to the other Extrasion fliers it was very small staken! By this time we were through the shaft and just about the surface of the dead star, (I should explain that Extrasc is really a sun and not a dependent places, but through habit I have occasionally referred to it by this latter term) There was a window in one wall of the control cabin, and through it I could see a steady stream of lights pour through the shaft opening. When I real-

all. Later I asked the Sphere whether it had a name. "No." it exclained, "we have no names. That willy custom died out millions of exclest see. Instead we have numbers. My number is 314-66874539. The first met denotes the rank and the second corresponds to the name. The lower a rank number is, the higher is the position indicated. I see that you have this rank streton unserself. It is inevitable in a highly organized divilization. By the year, as you have been over this come before one you tell me whether we may expect to encounter any unevenly difficulties on the way? Ah, yes. I see you age thinking of the Drulls whom we may meet. Let me reassure you, when I tell you that they are so low manually that it will only require about two or three degrees of mind concentration to annihilate them as fast as they come. To left the Astrakions it took at least circle dorrors. This is

to withstand the thought waves which induce death by mental succession." This was new to me. "Do you mean," I asked, "that you have gained such perfect control of your minds that you are able to revulate the exact strength of the thought impolses?" could sense the mental amosement of the Extension.

"For the last 4,000,000 cycles we have been nothing but almost solely pure bearns equipped with this ray-like means of recentsion which you have seen. Originally we had certain appendages with which we performed the majority of the necessary tasks. But we found that this distracted us from the none mental labor, which everyone of my race likes to include in as much as possible. As a result of this condition we have built a great variety of machines, which are entirely controlled by the mental power of the operator. It was these machines that constructed the space fliers. By their aid our power is practically unlimited, and some day we intend to conquer as much of the universe as is consucrable. But I that since these machines left us free for purely mental activity, we began to develop our minds to an amazing degree. When we perfected our ability to project mental impulses, all conversations were confined to this method and consequently our speech ormuna attrophied. As a matter of fact, the only renmants of our original bodies which we have retained, bendes our brains, are our eyes And even these have changed. As we learned to depend on them more and more for maintaining contact with the outside world, they gradually grew, and now they inclose the entire surface of this sollere-like body. Thus you may regard the Extresians as being gigastic eyes filled with kexins. No doubt such a form of intelligence seems strange to you and probably regulaive also, but you must remember that every living thing is completely molded by the environment in which it exists. If you were to trace the circumstances and confitions surround-Extrasian life, you would readily perceive the reasons for our evolution in this direction." Then I thought of

"With such an organism you should require no nour-

"Nor do we," replied the Globe, "That is one of the sumerous advantages of being an Extrosian. And what sint space ships, I knew that Astrax was hopelessly is more, our life soon has been so tremendously increased doorsed. Then, for a while, I preferred not to think at that 85,000 cycles is not an uncommon age among us That is because there are no parts to wear out. But what does baccen is this: You know that the brain is only catable of absorbing a certain amount of knowledge and ideas. In the case of such a race as your own where the histimes are so short, this fact is of no account, as you probably only use a small fraction of your total mental carecity. But with us it is different. After a very long time the brain becomes saturated and loses the power of recording any new impression. When this occurs the individual is no longer conscious of the present but of the true only. Originally, as such a one was of no une to the community, they used to be painlessly externinated. But in the light of advanced science it became remaible to make certain operations on them which dostroyed all the less important impressions and thus partially reluvenated the brain. Each Extraoian can survive because a more advanced mind is able, so a certain extent. about forty of those treatments which are undergone once every two thousand cycles. After the brain has taken more than forty treatments, it grows stale and becames worn out. Then it is extinguished. I myself am communicatively vorme, for I have no yet only token eight

treatments." "Perhaps you would like one?" "No. thanks. I don't think I will need it for some time

to come." Then for a while we conversed no more, and I again became to think of the terrible fate in store for my planet. It seemed to me that I had been taking the whole thing rather calmly, but, after all, what could I do about it? I would have given my life to warn Astron of the coming danger, but how could I? There was not a movement I could make which the Green Sphere would not instantly anticipate. The only thing I could do would be to wait until Astrax was reached and then, at the moment of landing, attempt to escate. In the meanting I would try to be as friendly to the Extrosian as possible Suddenly I remembered that even now he might be read-

ing my thoughts, and I turned to look at him, but he was completely absorbed in controlling the flier. Then I fell asleep and lost all track of time.

wander from the original point. You may rendly see "Translyter's Note: A "spot" may be the Retrosian explosion for a year. Proton Lesion improvely was not interested enough to find what it corresponds to in the year incommended to in the year incommended to in the year.

WHEN I awake I found the Extrasion still in the same position. He had not moved since I had has sten him, and yet I was told that over one-half of the distance had been covered. I could not help thislitus that it spoke well for the power of mental concentration which this raps powerses. Through the front window I could see faint points of light far in the distance. Instinctively I knew these were Drull space ships. I informed the Extresian of this.

"Yes," be answered, "they are Druff ships. I knew they were there a long time ago. As I explained before, we'll be able to subdue them by thought waves." "That's all right, but they have a heat my which could destroy this thin instartly. On the way here we were

nearly victims of it ourselves." "Don't worry. They'll never get a chance to use it.

The Globe turned to a small, shiny square on one of the walls such as I had seen before and the sad enet on its surface closed more visidly than ever. One by one each of the captains in charge of the space ships immed into view, vanishing almost at once. Yet in that beset moment of their anceprance the Extresian had been able to give each of them an order. Then the senere asked me to look through a rear window. I could see a long line of shiring points of light, each of them representing a space flier. Gradually the line becam to bend at the center, until it took the shape of a crescent, with our fier in advance at the center. From end to end the line could have been no less than 350 lentory in length. The Sphere informed use that the object of these tactics was to prevent any of the Drail ships from escaping for the line was to surround them, forming a circle. Now the ready to attack us. Even at that distance I could see their heat rays flashing, although they could not have us while we were so far away. Each moment now the two fleets were coming closer and closer. Then the Globe went to the front window and the red spot glowed again, Suddenly the foremost of the Drull flees bears to make ble in its path and then dropped out of sight. Sometaneously almost all the other enemy thins followed suit. But even so a considerable number remained to endanger us with their heat rays. These come toward us at a

reach of their rays, they too began to act erracically and planged downwards after the rest of the fleet. The Extresion was clutted over the overwhelpsing soncess of the barrie. "You see," he explained, "the whole thing was absurdly simple. I merely had to project my thought waves into the brains of the Dralls and thus command them to direct the ships' courses downwards before they

died. This carried all of them out of the way, and it isn't Norly that they will come back very soon. I had ordered all the other Extresions in commend of fliers to "Have your thought waves my limiting range?" "Of course the range varies with the mental newer of

the projectors, but the average is about twelve times that of the best rays." I saw a new hope for my planet. "Then I don't think your invading expedition will be very successful, as we have certain weapons which are efficient over distances many times greater than that. For example, we have an atomic disinterrator which would cause the atoms of this filer to collapse insturily and . . .

"Yes," interrupted the Globe impatiently, "I know all about that. We Extrosians shandoned that device thopsands of carles area. As a matter of fact I read in your trind that the Astrokenes love been making use of this ingrament, and as a precaution I have ordered that all the fires he covered with a film of solid bedroom. They won't be able to attack us while we are in the air, and when we land there will not be any danger either. If they should use their rays, then they will wreck Astron. so a victory would be too dearly honght." This hought home the realization of my planet's impending doors more forcibly then ever. What possible chance could it have assist as invading army of Super-Intelligences whose giant intellects had foreseen every possible con-

fingency? Then I determined to do sometimes that strangely enough, had never occurred to me before. I returned to the Extrosion and carnestly pied for my country. Since his position and rank were very high. I knew that if I could persuade him to abandon the savor sion and go back to Extrese, his decision would not be quatradicted. I told him of the beauties of my planet, of its highly organized civilization, of the scientists in the lower levels who consessly toiled for the betterment of Astrox, of its sirways and of its interplantary transports. In short, of practically every development that my planet had produced. All in vain. The Sobere could

"Do you know, I think I shell lost patience with your continual mourning over the approaching and of your race. After all, what purpose is there in life but the advancement of science? Cur't you understand that your houstard civilization is really of a decidedly low level anyway? You talk of the 'beauties of Astrax.' What good do 'beauties' do? Do they assist in the erection of laboratorics or of scientific instruments and machines? No They merely encourage indolence and rague dreaming. You my that your civilization has constantly devoted itself to the service and development of science. May I ask you what outstanding advances you have made in that line? "The trouble is that you punnit queer, sentimental ideas to interfere with your progress. When you should be delighted that your place on Astrox is going to be taken by a superite race of higher achievements, you bemoun the fact. Now is that a true, scientific spirit?" high rate of speed. Just as I thought we were within I saw that it was more than useless to plead with this strange creature, who recognized not a single idea in life

but the advancement of science and the same of adventirre. What could a rational being answer to an argument like that? And yet, after a little reflection, I could understand the russon for these perverted ideas. As a civilization of pure brains, they had practically nothing with which to concern themselves but intellectual labors. As a result every idea relating to personal pleasure or restletic prereciation of the legetiful had died a rectural death. That was my way of accounting for the Globe's

After that I made no sacre allusions to the fate of my planet. At least I had done all I could and no more could be expected of me. I asked the Green Gloke what would harpen to me when everyone else on Astrax was disposed of. I learned that so long as I did not interfere with any of the subsourcest Extrasian recombines nothing

would be done to me. I could not help thinking that that sort of a life would be a lonely one-wandering through the levels of Astrax and reflection on the life and activity which I had loved so well, now gone forever. I knew that I would never feel at home with the Extrosians.

"You will get used to it like everything else, as I told you before," the Glube told me. "But you never seem to realize they fact and Pos not coinc to drill it into your stabborn mind any more. Perhaps you will be interested small disk of light you see through the front window It is only 3,000,000 of your fewers away, and at our present gate it will not take very long to cover the distorce." I felt a forch of emotion as I ensed on that bright, shining fight which I know was my home. . . .

HR filer was traveling so rapidly that the visible disk of Astrax borse to calang somerishly each instant until it soon filled the entire heavens. Alrendy I reconstred the characteristic markings of those eastinents which faced me

The Sphere decided that it would be better to try to effect a landing on the dark side of the nigner, an accordmely the entire Extresion flort second around to a large circle until it reached the other hemisphere of Astrax. cert and immolistely great signal flares were lighted all over the surface of the planet. At the same time a great bords of space skins rose from the orrand as if he mosic and becan to ascend above the limits of the atmosphere to a point where they could operate their Wexton ray machines. The Extrusiana, despite their emperior intellects had not anticipated this manager, and so were forced to fice from under the Astrolian ficet, which was cet of the range of their thought rays. The Green cities. The Extrosion filers flow racidly overhead and by projected thought impulses killed off meanly two-thirds was reduced to a metropolis peopled by corpses. Of course the inhabitants of each of the big cities had been sedered by the General Astrakian News Agency to leave. but their numbers were so great that the process of departure took considerable time, and this afforded the Extrasians an opportunity to catch up with them. Meanwhile the Astrakian fleet had overtoken us and was mining a perfect shower of the atomic rays, even at the risk of endangering their own cities. This menace grew to alarming proportions as more and more Astroleum filers joined their comrades. The Green Globe then deterseized to attack the corese on its own ernend. So, instead of killiar off the citizens below, it turned its attention to the filers above. Soon the whole Extrusian fieth was high in the sir, rapidly approaching the Astroklans. Already they had lost nearly sixty ships theoseth the aterric ray machines while the Astrakian float was as yet intact. But you, when we were at close quarters, the Spheres had a chance to project their mental waves, and in a moment dozens and dozens of hearife space ships fell to sure destruction upon the surface of the planet. many feeters below. At this moden reversal of conditions the Astrakians begon to take alarm and accordingly all of them tried to fee from the range of the Extrosian thought rave. But this they were unable to do. The invading ships were very much faster and the Astrokian vehicles had not a chance of escaping them. Moreover, when they saw so many of their thins suddenly dren downwards, they lose their courage and even nerfected to

are the tax machines. Thus all of them fell victims to the Extresions, and the Astrakian fleet was no more. We then dropped all the way to the surface and prepared to emerge. The Green Sphere informed me that he was not going to make any attempts to get into communication with the remaining inhobitants, as he was point to exterminate all of them anyway. His annihilation of their first had left no doubt of his irrestors. We alighted near one of the large cities and all of the Extrosians left the ship. I begged to be permitted to remain behind, as I could not hear to be seen in the corporary of those invaders by any of my fellow creatures. For a while the Soliere seemed to bounts when I requested

this previlege, but he decided faully to leave me in the "But I warn you," he added, "not to leave. I am not even going to leave a guard, as you aren't worth the trouble. If you go away it will be your own fault if you get liffed, since more of the other Extragions loow were For a long time I thought over the situation. Then, and dealy. I made an ery mind and I arted at once. Be a strange coincidence the city near which we had landed was the same one in which I had been enpared as Landing Stage Inspector, so I knew it thoroughly. I left the figer and ran as rapidly as I could to the city and there I mixed with the terrified mobs. I believe that of all the thousands there awaiting destruction, I was the only one with a set promose in mind. I went to the nearest heliding and soon found my way to a shaft leading to the hottom levels. Down I went to level \$1. Even here the place was deserted. Knowing their doors was at hand the scientists who worked there preferred to die in the Tiels of day rather than does in the best of the arrend As I went about I had been hastily eathering food, and he the time I reached my destination I was loaded with this necessity. At last I came to a soutil chamber which had formerly been a secret office of the Astracian Space Ship Co. Under a rabinet at one side of the room was a hidden lever and the door opened. I climbed down and selled another lever. There was a tremendous explosion and the entire building above me crashed into rains, thus effectively scaling my retreat, which I had always reads for just such a cutastrophe as this. I followed a small and distly lighted corridor for about fee testors and finally arrived at a tiny soom filled with all sorts of scientific scenarus, chief among which was an excellent sence-phone, operated from a private source of energy. There is little more to say. I will send twenty-five messages exactly like these which I hope will serve as a neach. If it were possible, I would give complete deseriorious of our atomic energy production plants and one warment new marbines, but these were known only to the congruences and the inventors. If there exists a race whose science has enabled them to construct a spacephone like this or some similar instrussent canable of receiving any of these messages, then my work has not been in valu, and surely such a race will do its utmost to defend itself against the Extrosians, who have annonneed their intention of conquering the entire universe

if possible. Farewell and may you be fortified against this menace in time to resist its attacks.

Flamingo

By Clarence Edward Heller (Continued from 2000 329)

The property man within the cab, wairing for the lady to enter, who, by the way, was none other than a female robot, loughed heartily as he tossed the zero orchids out through the cab window, and appropriated the ring.

through the can window, and appropriate the ring.
Miss Dobly felt very sorry for the unhappy chap and
his wasted gifts of adoration, but the Manager and
tayself took it as a rare jest.
"You missed the same felt he next invaried at which

myself took it as a rare jest.
"You enjoyed the numie?" he next isquired, at which we both nodded our hoads in an enthusiastically affirma-

"I am glad . . . for the 'Orphonium' and the 'Harmonium' are my especial delights.
"The lights, which you perceived in hundreds or thou-

The upins, waxing you perceived in manners of contents of the power strates located in the Bufful Locks, by the Edisonic Corporation. "But, the most marvelones innovation of all its secrety. It is all relayed by wires from all countries ..." jave, Irdis, Wales, England, Africa, America. ... any-

where ot all. Trees, tropical fruits, gasses, folloges, warom tiets of noture, typhoans, simoons, memocous, giles or calits, or loc-berg some from the from Astarchic. Crocodies lasking in Floridian everglades. A fiest in San Diego.

"For a great sum of money as rental I order whatever scenery I wish in advance . . . my agents attend to that, of course.
"I thus have no strikes, no delays in shipping scenic

"I thru have no strikes, no detays in stuguing scenic effects, no temperamental fits and starts from my artists, for which I am so truly thankful. "Agilo, n fact that you and your full companion observed, no doubt, toright. There were all types of female

robots daroing, yet, ther I mention in the presence of your friend that there was nothing suggestive or that would shook the most sensitive person. I assured bits all had been cognitant of this. "You see," he continued, "the Sex idea has been

"Yes see," he continued, "the Sex idea has been such, saltemped, as it were, under the loftiness of my themes. I admit there are other great theatres in the world, all producing extravagnum rebut shows, but I aim

I hastened to express to the Manager my particular gratitude for this vast work of his art.

"There are no salaries substoover," explained the Manager, and my only human contracts are with the

property men and wardrobe personnel.
"That is the modium which has enabled the producer to give his audiences of this era such marveluus productions at such abnormally low formes.

"But, I must be leaving . . . and I am sorry for my intrusion."

the lady I strong and shock his hand, and he departed.

It was now quite our o'clock and the immerse con-

out course was crowded with dancers, who would occupy the floor until daysight.

I observed that Miss Dolly appeared to be a trifle and fangued, so suggesting that we depart, we made our way

from the table. Upon receiving her clock and my own has and mp-con, without leaving tipe of any sort for that was passed now in a robot world, we hastened to the marving sidewalls.

We not down on the way home, and relieve the creations.

marring sidewile.

We sat down on the way home, and taking the escalator, reached the street level, outside of the apertment hotel in which the Van Sweggers and myself resided.

Miss Dolly's face lighted up as after indicated the roof

Miss Dolly's face lighted up as she indicated the roof of the Astoria Hotel, one hundred and sixty-five stories above the passument, with a wave of ker hand. Peering upward I observed the night Limited Oriens Express, knying for Japon on their twelve-hour schedule, from its runsway on the top of this manuschi hotsility.

At hist, at the door of her parents' apartment, I took
an old man's privilege of kissing the fair Miss Dolly
a Good Night, and the affect me II 2018 that the roes.
I took it from my pocket, and she kissed in, and then
I followed air.
I did not blame Miss Dolly much, for the is vonne

g I followed sain.
I did not blame Miss Dolly much, for she is young
and russastic, but a mon of my years!
She wished me to see some ocean flats with her the
contracteroom near Mrighton. . . and no I tendered her

s, one assession near neighbor . . . and as I tendered her wrap to her, which the ever-webeful fermée robet teole in her head, through the slightly opened doorway, I passed in my hat, also, in my confusion.

Miss Dadle launder merrite as the passed my hat our

as to me and told me I had every young man of her icqualistance completely outclassed for distinguil bayishness. I went to my rooms on air.

Taking a glass of synthetic solu and brandy from a wall-faucet. I sat drow need conscruented the evenior.

wmoenteet, I sat down and contemplated the evenlen, What a weatherful show and what a grand wife Miss Delly would make for some rises. And, thinking jointly of the premised inspection of a come first for the next of any and what an assigkious co-

casion to propose to Miss Dolly, I begin to prepare for the my bol.

Scratching my head, the lithing notes of "Red Love" houseed my; and the lovely Mis. Finniuso, who had the

ducer face of, et ... Miss Dolly, in my dreams, older if any of the property of the control of t

THE END

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The Universe Wreckers

A FEW was of science are soon predicting that within a relainely, have period
A of time space-treased will be about not of the reads of of area pushibly and
will become an wedersider reality. Mr. Hamilton, in his final chapter of this
work of the state of the state of the state of the state of the state
trends, when it will have become a more we less preferred naturally. This insulmost run doug in the true Hamilton manner—there is pleasy of science, pleasy
of action and pleasy of plannibility in "The Universe Weetcher."

Illustrated by WESSO

Was workers.

When the property of the propert

CHAPTER XI (Continued)

Desperate Chances

N the ante-room comparisent stood the usual files of Nepanian guards, and as we saw them, far beneath us, we heard a sharp entocate order from one of them, saw them standing asside from the extrace to the great circular Countil comparison. Then, as we watched, we saw emerging from that circular comparisons in a moment more, their Neptunians. the

sugerne Courci of There before which we had been on short a time thereof They were conversing now it effects a stockto repects, no longer held sitent by the symbolism; and of their missing the stockton of their missing their missing their missing their missing their missing their missing the stockton of their missing their missing

passing above, and if we get down into this compartment, we can make our way to the dark side!"
"You're going to try to starl a cylinder on the dark side!" I sided, and he nodded.
"Yet, is the darkness there, where the Neptunians are

skepling, we'll have a choose to get at one. But we must harry, for there's fittle time left before the great signat comes for those on dark and summer sides to change places?'
So, sparend on by that necessity, we swang curreless

over the suffs orige and than dropped down through the dulit from Jamello fire toward the authentical conmorth of the suffs of the suffs of the suffs of the more than a drop of a tent that distance on earth, as showly did we final form formed the forth possible or the fire trendled in a bury there, and then straightened, the first creation of the suffs of the suffs of the suffs, provided by the suffs of the suffs, and the suffs, and the fire trendled in a bury there, and then straightened period alore. The suffs of the suffs of the suffs, and the suffs of the suffs of the suffs of the suffs of the to the cell-constitution from which we had concept to the cell-constitution from which we had concept to the suffs of the suff

A Serial in 3 Parts Part III By Edmond Hamilton Author of "Looked Worlds," "The Other Side of the Moon," etc.

compartment, moving now in error fleating leans each The great circular compartment was as empty of life as the one which we had just left, the twilight dask in it disnelled somewhat he the soft-clowing duty in its walls

The great ring-table in it had in the seats around it no Neptunians of the Council now, but at that table's center stood still the great metal globe whose strange mechanism made of the thirty minds of the Council members a single mind, in necession and action. Knowing even as we did that if was but a lifeless mechanism now without the Council's members connected to it, it was yet with some awe that we stared soward that error mechanism to where we've we had listened so short a time before. Much would I have given to have examined it, to have inspected whatever strange mechanism by within the globe, but time now was our enemy. Soon the signal would come that would send the millions of Venturians on dark and surreard sides streaming across Trison to charge their sides. And unless we could steal one of the extincions and escape before that signal came, we would inspirable be discovered

So, sparing only a siance toward the great silent clobe. Marlin and I moved alleady across the errest Council compartment, toward one of the low doors in it that led separently toward the dark side of Triton, to our right. Causionaly we passed through that door, finding cornelyes in another orderoom comparement, as oncee now as the one through which we had already come. Swiftly we of ours made now, toward the sleer in it that led in the direction of the dark side. But even as we moved toward that door, as we stooped to pass through it, Marlin and I shrank authority back, appalled. For as we beer toward that door, the sound of staccato voices had come to us from just shead, and we had seen in that partment, several armed with ray-tubes, who were conting straight toward that door, straight toward us I A moment we glanced wildly about through the desky

compartment as they come toward us, there we had leaved aude from the door, had reached one of the compacts that corner and eroughing there in the deals, even as the dozen Nectunians came through the door! It was our one chance of escaping them, the chance that they might not nererive us in the consurtment's corner through the radiable deak that princed in it. But I know that no keen were their great bulging multiple eyes that it was against bons that I board. The Nercurians who had notice us as they entered, passing across it toward the great Council compartment, conversion among themselves in their statution speech-strends as they did on . Tenachy we remarked there, etilizating authority as we saw one of the disk-hodled monsters sublenly turn and plance back across the connectment in our direction. But in the pest moment he had turned back, not seeing us, and then they had cassed through the appealte door. their strange voices possing from our bearing.

Marlin and I straightened, with love breaths of relief. "Close Hunt!" he whitnessel. "But on to the dock side we've little enough time left !" "We're almost out of the twilight hand now." I told him, "and in the dark side we'll be a little safer."

AND now we were moving quietly through the door from which the american of the Necturians had startled us, through the compartment beyond it and on through another and another. These commartments of the twilight hard scored for the most part curie score, filled neither with manner of working Newtonians like those of the sunward side, nor masses of sleening Nepturians like those of the dark side. We had found bourger, that the compartments of the twilight board were in fact used only for the housing of the Council of Thirty and of the other activities and departments of the rules of the Mantucians their only surpose wide from that being to provide casy access from the derk to the surveyed side of Triton, and vice versa. So it was that now as we creet through the twilight dunk of those connectments, we found them almost whelly enter and tenantiess, though once or twice we were forced again to seek hiting in the shadows as we beard the spaceato voices of Neptunians in the distance. Once, tea, we were startled by one of the calinders throbbing by close above us, and since we had had no time to bide from it,

thought correlate discovered by it though after team

minutes it became obtain that its occupants had not seen

But soon the twilight of that narrow hand was descenthat carlight deak into a deep darkness that obscured all things about us. We had reached the dark side of Triter we know and now second more carefully affilfor upon that dark side, we knew equally well, alone half the massed milions of the Neptunian moon. The first (ex compartments which we traversed in that darkness bossesses, were as empty as those in the resiliebt hebital us. But then, as we record affectly on, we came into the first of the errest electrica-community totals. Even him its sowering walls lived with intersecting shelves whose openings, twice as long as they were bigh, were ranged to room and above the other. His olars niceon-hales

This clean comparingent, through, was not errory like those soon Necture, for in its hundreds of shelf-openlearn his moral princers haden there alent hundreds more hundreds of the disc-bodied Negermans! Their seven short limbs folded up around their disk-bodies, they reposed in those openings with their bulging, glassy even as open an ever. It was evident they all were sleening, since the dispess of the day upon Necture had made lide for those eyes urnecessary in the evolution of their strumer race. And core was that sight to Morlin said myself, as we steroed allently into and across the great sleep-compartment. For it seemed to us that the housdreds of Neptuniana reposing thus in those wall-countries were reparding us fixedly with their great multiple eyes, workships us as use moved across the compariment. None ctirred, threath, as we made our way agrees it to the ermosite door, and moved into the next, which we found to be another sken-compartment also, its well-openings,

too, holding hundreds of the sleeping monsters. Through a dozen such signo-compariments we went encoder with infinite quiet and core, lest new of those election thousands about us be aroused by say sound

And above it reserved to Markin and me as we come on that that here was ended in pay rase, since so far we had found more of the landism-connectments for which we searched, more of the cylindrical fliers in which alone we could escape. We had passed through other compartments that held the great heat-radiating globes, now, to their aid the bundreds of Neptunians sleeving about us. Before either could uster such a cry, we two had shot

great glowing globes whose intense heat was not radiated out horizontally at all, but sent up in vertical beatcorrests, which by convection in some way warmed all Triton's atmosphere. Past those and through still more sleep-compartments we went, pausing now and then as from the distance in the dark side there reached us a few staconto voices; still we came not upon any of the

landing-compartments for which we searched Despair was growing at me as we crept on through the aleen-convertments, through the thousands of slumbering Neptunians. For soon would come the signal that and unless we found a landing-compartment, a cylinder that we might steal before then, all was lost. Even with such a cylinder, indeed, little enough hope was ours, since we dared not attempt to get to the twenty controls of the great sun-ray across the swarming sunward side. Our greatest hope would be to escape from Triton in it, if possible through the great roof that surrounded Triton, but even that bone seemed a futile one now, since, as we went on and on through the dense darkness of this sleeping side of Triton, we were moving still through a more of sleen-compartments, procing blindly through the vast checkerboard maze of intersecting, towering walls And as we came into still another of the sten-commertments, with its massed sleeping Neptunians in the wall-

openings around it. I halted beside Marlin, twitched his "Martin!" I whispered. "That signal will be coming soop-this dark side's sleeping millions will be waking around us, and we've seen no sign of extinders set!" "We must go on, Hust?" he whispered sensely. "It's

our only chance now-to set to one of the cylinders before they awaken!" "But if we were to head in a different direction-"

I becan then was abcuntly silent, stiffening suddenly, as Martin chd, beside me. For there across the dark compartment from us it had seemed to us that one of the sleeping Neptunisms in the wall-openings had moved! Fixedly, in that moment, we stared toward it, its own great glassy eyes staring back toward us like those of all the other skeeping monsters.

Was the creature asken or waking? The question burned in our brains at that moment as Martin and I stood there motionless, gazing toward the Neptunisa, It was but the merest moment, through, that we caused thus at the thire transfixed, for in the next instant it and the one in the opening beside it, roused by its own move-

ment, had moved again, and then with their low starrate. eries of surprise sounding together as one, the two Nentunian monsters had leaped down to the compartment's floor from their openings and were confronting us? Through the Roof

VEN as the two creatures leaned down to the floor. and before they could enough out and astonishment into louder crics of alarm, Martin and I had learned arrows the commartment toward them For a full two-score feet in one great leap we shot toward them, a feat only possible with Triton's leaser gravitation, and only possible, too, because we knew in that moment that a single load cry from the two creatures would bring

So astounded were they with our appearance and our supernatural leap across the compartment, that before they could put themselves into a posture of defense, we

had struck them, had knocked them to the floor and were grapoling with them. In that first memers of contact I had reached for the mouth-opining of the disk-hadied monster at whom I had leaped, had gripped that opening in the top of its disk-body to prevent its outery and then had striven to lift the thing sidewise, to harl it against the floor. But great as was my strength against Triton's lesser pravitation, the strength of the Neptunian I held was greater still, and its weight, due to the weight-disks word by it, was enormous. In an instant its seven great limbs were clutching for me, grasping me, and as I strained there against that great monstrons disk-body's erro. I knew with fatal certainty that never could I match my strength spainst its own. For even as I stroggled desperately with it, Martin struggling as wildly with the other beside me, the thing was lifting me with its own ereat limbs from the floor! Upward it drew me with those powerful limbs, its

halving plants even staring from its disk-hody's edge straight into my own, as we grappled descentely in the dark compartment with the sleeping Neptungans all about us! I left provelf being overcome, my strength remy beside the strength of that monster, and as I clutched wildly still at the mouth-opening in the top of the disk-body, I though my clenched first down into that small wound mouth-opening, half by chance and half by design, closing it thus with my balled fist. Instantly the creature's potten for the moment, its whole hody's mass seeming to house and twitch as my hand thus cut off the passage of air into that mouth-opening, into its body! I was throtthing it. I losew, and hune forcely to my grip upon it. my cleached hand still within its mouth-coesing, while the thing smayed and tore at one with executerressing strength. A moment more and its struggles ceased, it collansed limply to the floor, and I storgered up again to

gripped Marliu and was crushing him against a corner of the cormartment's shelving and instantly, with a single great leap, I was upon that other monster, had greated upon it the same throatling grip which I had found was so deadly to these creatures. In a flash the Neptunian had released his hold upon Marlin, was whirling me around the compartment, shaking me this way and that, and wildly attempting to tear itself loose from me, but with the last of my strength I hung to it, and in a few moments it, too, had werkened, then had slumped down in a lifeless, protesome mass. And as I rose from it I saw that Marlin had stargered up discreise, was coming toward me. None other of the Neccessians and Jaco aroused by the noise of our mad combat, because in the first excitement of that combat the two Negturious we fought had not thought to cry out, and after I had guined that shroetling hold mon them they could not. So around us the ellent ranks of Nestuniana skeet on unaroused, their open, glassy eyes full upon us even in their sleep, while Marlin and I were stumbling toward the comportment's door.

In a single glonce I mw that the other Neptunian had

"On, Hunt" he whispered hoarsely. "We still have

a chance, if we can find a landing-connectment, can steal one of the extinders before these strening Negotrious wake!" Through the new compostment we went and the next

and the aget, all sleep-concurrences, filled with rows of durchering Neogunaus like those behind us, but in our progress we had come upon no landing-compartment And though we knew that such there were here and there and with the bace walls towering all around us, in what direction from us they might be. We could but blunder amilestly on through the mare of adjoining decourage confinents in the blind hope that we must chance upon one of the landing-sections, and as we went on stargercompartment, all filled either with masses of alconing Nontanians or with great heat-radiating mechanisms, we knew that at any mament mucht come the great signal

Never could there have been flight more rightnoon tice than that of Marlin and myself through the dark comparements of Triton's durk side, in blind search for the cylinders which alone held out to us any chance of escape. Through the sken-compartments, with their masses of open-eved and election disk-hodied Necespieces, through the compartments where reason the great glowing globes whose radiated heat alone held back the ings, through compartment after correspond in a flight made more grotesine and inseal to us by the strange method of our progress; by the strange great amouth leans that we made instead of steps, great floating leans of a score of feet in which we rushed through the dark sheeping compactments, recidens now of the few Nestupipers who mucht be waking and moving upon the dark side. Then suddenly as we leaped toward the door of still another sleep-compartment, point an instant to lean flaring home ahead. For the next comportment, we saw, was a rectangular one and greater in size than any we had peoped through as yet, and in it there stood the great pleasing shapes of a score or more of the cylinder diera

With hearts pounding Marlin and I crouched in the how door, evering thereigh the darkness toward those great collectors, that observed a little in the fooble lists that came down upon Tricon's dark side from the store through the great roof overhead. We saw that the low doors in the sales of those extinters, near the bases, were open, and from them there came to us the throbbing of part of the courtiers refinders used to help in tensormet. ing the Nesturday bardes from duck side to account side those throbbing mechanisms' operation, that the been of awakening for those hordes was at hard and that these were waiting for that awakening. For there stood also, between in and the nearest of the cylinders, three tubeanned Negrunians who were converting in level, wan-

ping speeds as they waited! POR the atoment, at sight of those cylinders, Martin and I came near to throwing ourselves toward them promption of the three but that we leave would be said cide, so despite our torruppy sorrey of and an anisad there in the doorway, razing desperately toward the cylinders. And in a moment, as we sought in win fre some way to get to the negrest of those ordinders, then came a final starcato order from one of the three New turious and at that order the other two turned and passed from us. It was our chance the chance for which we had hardly dared to hope even, and no sooner had the two Neptinian disappeared through the opposite door. the other standing with his eyes following them for the moment, than Marlin and I had crept out a little bit inte the landing-compertment and then with a great simple tencors lean had shot through the oir seared that we

mort. For own as we knocked it skiewise with the force of our leap Martin had presond the greature's limbs and with fierre, desperate strength I had with my cleuched fist closed its month-ovening in that method whose deadliness had been proved to me in our other battle. The thing threshed wildly, then it, too, had gone limp, and had collapsed. And in the next instant Martin and I were rising from it, were leaping across the compartment toward the open low door of the parent steat calinder, from whose great elearning surjets bulk before us cause the throbbing of its powerful penerators. And then, a closen feet from it, we stopped dead, and from Marlin came a hourse cre-

For at that moment there had swept over us, through

on coast us, from the direction of Teston's surround and across its surface, a hand of intensely brilliant white lists. white light that blazed brilliant for the moment all around on territor the chearefees night of Triton's deals side around us for the moment into a white and blinding day, and then sweeping swiftly on, around Triton's surface millions of electing Neptunians about us to awake and change places with the swarming millions upon the sunword side! And even as that deceling signal came, as Marlin and I stood stupefied there for the moment before from all its maze of aleep-compuraments, a riging habel of staccato voices, the voices of its awakering Neuturian millions! Then, before ever we could recover from the stupelschon that in that instant held us rooted to the spot, there had poured into the great landing-compartmeet from the consentments on all sides of it amount of Inspering Nectuation, swarms of dislocated oversters, who is that moment saw us, attered as one a sharp erreat ery of discovery, and in the rest moment were rushing from all sides boward us!

"The extinder? It was Martin's wild one that around me from the sturefaction of amountment that held me. Semirld before us, a dozen feet away, was the open door of the nearest cylinder, and in the next solit-second Marlin and L as one, had leaged toward it, had shot through that door, toward us. The next instant I had reached francically for the door, but with one swift motion shift or clanaring share and then as the Necturian masses ontoide burket themup through the openings toward the cylinder's uppermost section. In one leap I was at the central controlstooded feebled function by with the over control stude for an aguaiting moment, and then, inst as we

beard the Necturious below flinging themselves against

the class, the great throublest extender shot mound!

Up over Triton's dark side we rose, a desen slender ascruent, and as we whereof momentarily down we could see the Necturings in the landing-compartment beneath rushing toward the other cylinders there! And glanging far across the surface of Triton, we could see all its mighty compartment-city, dark and surround sides alike, swarming pay with Neptunian honles as the end and her ringer of their strange day and night periods was sigrailed. Over the great compartment-city, over all the countless millions of Neptunians that swarmed through it, there was streading a crackling mar of excitof tumply.

as our escape was discovered. And from far away on rither side and from beneath us, scores of great cylinders whirled toward us! "Up-us" Martin was shouting now beside me. "They'll have us in another moment?"

I present registly posits the study before me, and as the cylinder shot up and sidewise with terrific speed on an sir about us. "The roof-openings?" I cried. "We'll make for the nearest one?" But as the cylinder flashed obliquely upward, Marlin and I croaching in the two opposite seats at the control-

standard, I become aware of the awarms of racing celinders behind closing in upon us. And over the dark and sumward surfaces of Triton that great mounting roar of sound was spreading, as the Neptunian horder now our wild attempt at escape. Up-up-and now we were racing close beneath the great most transpagent from below. with the pursuing evilpiers drawing ever nearer, their Neptunian occupants more skilled than I in their operation. And now, too, from those storistics, necessing swarms were directed toward us slender penell-like rays of pale light, visible only near their source, concentrated force-rays, that would cleave through our cylinder as

On and upward-and now as we shot on, with the swarming cylinders hurtling both after us in wild our. suit, with the throb of our renerators and the roar of air about us thursdering in our ears, with the wild tersuit of the massed Nentumons on Triton's surface estimated file up to us from beneath, Marlin and I were expine with tense ever ahead and unward. The great opening, the great sliding section of the mod down strongs which we had conc-that was our one chance to excuse from Triton. I knew that unless we could win through that openand on we went-our eyes still mon the rost mod overhead in search of that opening in it, when suddenly Mar-In cried heavely in my cur, and posted sheed. And there from about were rushing toward us other scores of critinders, other swarms of racing cylinders answering the surreading plants, while still rathers were shooting up from below toward us! From behind, from ahead. from beneath, the cylinders' swarms were conversion

roof----"The opening-section?" I cried suddenly. "But it's For there above, indeed, was that recut circle in the vast transcurent roof that we knew could be slid aside tle care-room staucended beside it. My one hope had been that in our stolen cylinder we might deceive those guards of the great orifice into opening it for us to pass

But that hore was gone. Belief and below and before us were the pursuing swarms of cylinders and the Nepturnians in the garn-toom above knew that something was wrong, and had not opened the great circle for us. There were other similar circles, similar opening-sections, in Triton's rood, but it was too late now to seek them becouse from all about us the swarming, racing evinders were reshing upon us. In another monete their rays would shatter us! I heard Marlin, beside me, utter a low exclanation of utter hoodessness as those evindres rushed unon us, held our own cylinder for the moment motionless there in mid-pir beneath the areat mod's overine-section, and then suddenly reached toward the control-study, even as Marlin's hourse cry was sounding

"The end, Hunt!" he was erving. "The evlinders are almost upon us-and the opening-section is elosed? "The end manho-had not this new?" I should be said at the same moment sending the cylinder flashing straight unward with all its speed. "Hold to your chair, Marlin - cur'er some to much through that exceins rection of the roof!

Even as I cried out thus, our eviluder was rising upward toward the roof with all the power of its throbbing seasonators, burtline upward at speed perhickable toward the great circle of the opening-section! I was aware in that moment of the crossing section? I was aware in and beneath us loosing toward us a storm of covering focus-rays that we drove clear of in that instant. I was aware of the Nepturiers in the cape-room beside the great opening-section rushing wildly about no we shot unward like the cylindrical projectile of some shart cannon! The next instant I caught the gleam of the transnorms suck, of the corning-section but above us. Marlin and I instinctively crouched lower in our seats, and a moment later there was a blinding, sturning shock that secreted to split the universe with its detonation. We were dragged up from our seats with awful force. And then

as we straightened up and looked out, we saw that the criticaler had smarthed through the creat opening wo tion and was throbbine above Triton's murbry roof The cylinder's edling, above us, was crumoled and here hadly, but in that moneys it seemed a miracle that we had lived through that serrible collision. It was only our awind around that had naved us, driving us through the opening-section's thick metal even as a cyclone will drive fragile straws and twigs unbroken through a board. Now as we looked downward we saw that the sworming ourine-section and that that circle of the opening-section was slowly sliding aside, bent and cromoled as it was, to allow those cylinders to emerge through Triton's roof after us! And up they came, a full hundred of them, racing up-after us at utmost speed, up from the great metal roof of Triton, dark and opaque to our eyes from above, and up through its atmosphere close on our track?

THROUGH the rushing roar of air about us, the throbbing of our guaranters, I was aware of Martin shouting something beside me. I was engine ahead for the moment, as that wild flight and purguit passed on through Triton's atmosphere. Giant Nepeute's cloudy green sphere bulked girentic in the heavent before we and far beyond it was the little fire-disk of the sun. Then I turned back to see the hundred retrainer colinders, not time ever closer behind us. As I started at the ciche I became sware of Marlin shooting baside me, and at the

that the throbling of our persenters was halten, besitating, failing! Our great erash our through the roof had broken some part of their spechanism and now they were failing rapidly, and the spend of our cylinder was slow-

And behind us the scores of oursaling cylinders were clowr-close! Already toward us again from them were leading the slender pale force-rays, unknown us at that distance but sweeping close about us. With an other tenworss of body and spirit. Marlin and I wanthed them drawing closer, so our cylinder shot on through Tritun's atmosphere. Suddenly another storm of each had shoe and sweet toward us from behind, and one of those wildwhirling rays, in a single instant, dove through the extinboard, slicing away completely the already-enumbed roof above us and the upper half-dozen feet of the walls? Instandy a flood of ire-cold sir replact in more as and seemed in that moment to freeze us through. At the same moment the throbbing generators ceased considerely ward, drifting helphasks there in the outer maches of Triton's atmosphere, while from behind. Her leaving

creatures of prey, the scores of cylinders rushed upon us? Neither Marlin nor I voiced a gry in that moment. We could only stare as if we were automatous, toward the corrolling cylinders, the encoming doors. We had ren our course at last. It seemed in that moment that all our bitter battle for freedom, our toilsome esence from our cell our flight through Trion's alerning side our mealing of the cylinder and wild crash mouned through the great roof's opening-section-that all this futile fight of ours was remaching itself with lightning swiftness before my eyes. The swarming cylinders were almost on us, holding their rays now as they saw us belokes until they were closer, their great mass whicking straight toward me, expectant in that instant of the end, I saw that onrushing sease of cylinders suddenly shattered as though by giractic bloss from above. I saw the scores of culina ders driven this way and that in a simple instant with colossal force, even as they rushed to annihilate us! And

I looked denotly up, was looking up-"The space-fliers" Marin's insure ore was sometime there beside me, "It's the space-fire-and Whitely and The space-flier! There high above us and above the

pursuing cylinders it hung, a glussing faceted ball, at sight of which I could only gaze stapefied. I saw in that motocut that down from its lowest ray-opening there was radiating toward the cylinders that had been hertline in a rous toward us, a pale, almost invisible great forceray and that it was that ray's mart presume that had shattered the mass of our pursuers, and in an instant had driven their massed cylinders to all sides! Then, as they broke thus in wild confusion before that swift great force-eay from above, the space-flier was finding down toward our roofless, drifting cylinder, was hovering just beside us, touching that cylinder, with the round outer door in its facet within our reach! In an instant Marlin and I had dambered to the drifting extinder's edge, had whirled open that outer door of the space-filer. When we threw ourselves into the little vertibule-cham-

Whitely!-was pulling us inside!

"Whitele-Randalis" we were holding in our enritemeer, "we thought you dead-saw fragments of the space-flier and thought it destroyed---! "No time now to tell you, Marlin-Hunt-" Whitely was harriedly saying. "Those cylinders are forming again. Ther're coming up toward us! Head out from

But even as he had sooken. Raudall, in the controlchair, had flashed his hands over the six control-switches. other three chairs, we felt ourselves present down with terrific force against them as the space-flier shot out from Trinos with colossal speed! But at the same moment the cofinders that had formed aroun into their closeground mass, had leasted forward with us and the next mousest saw space-dier and cylinders althe whirling out start I rispeed back, asse that the evlipters were close behind our hartling space-filer, flashing after it somewhat toward Triton and flinging it outward. And as I stanced back, I saw Triton's dall glessong sphere, with the pale

eiges force-ray that stabbed from its side toward the

son, growing each instant amaller! But dead about of us, though somewhat beneath our level, there formed the colossal green sphere of Neptune, growing in size as we rushed on at immense speed from its more! On we went, and as Randall's hands flashed over the ly forth with him, we were aware that from the roos of onracing cylinders behind stender force-rass were again questing toward us, though the range was too great for them to loose them accorately at this terrific speed. At any moment, though, one of those concentrated, sendi-Hur says might cleave through our space-flier in a lucky hit, and mises we escared from these relentless promers, the spece-filer and ourselves were certain of destruction. This I saw, and saw too that Neptune's colorsal cloudy sphere for close before us, so awful was the speed of our flight and pursuit, and as it loomed gigantic before us, filling the hossens, it was apparent that we

would not close above its surface. Sodden's I turned to Randall, shouted in his ear above the thandering throbbeing drose of our generators. "Necture !" I cried. "There's a chance to smash these persoing cylinders there!"

"But how-?" he began. Shotting is his car, I explained to him the desperate insurration that had come to me. I saw his eyes and those of Marlin and Whitely widen as they heard, and then he nedded grindy, And now about us was sounding again the roar of air

as we abot through Neptune's atmosphere, shot above the surface of the buge planet with the cylinders rushing still at equal speed behind us, their deadly rays stabhing this way and that in slicing sweeps toward us Through the plandy mists of Neuture's upper atmosphore we firshed, straight onward, with the dark metal surface of the giant world's vast roof clear now to our twee far beneath. And as we shot over it I saw Randall's urin tighten on the coerrol-switches, saw him glance back toward the pursoing cylinders, behind and a little buseath as, and they abrough he had flung open the switch of the great force-ray that was driving us on, our star-ray! her or air-lock, abut the outer door, and turned toward Instantly the speed of the space-filer slowed, and in a the inner one, that inner one was opened and Whitelysplit-second the onrushing cylinders, racing on undowfor in that mounts, were burdler nest beneath us. And as they did so, another switch had elicited under Randall's hands and straight down upon those cylinders from the stace-filer's bottom was driving down mather mighty In the sext instant we had a glimpse of those massed relinders that had been rushing thus beneath to driven down by the power of our erest force-ray with incor-

ceivable speed and force, driven down in a whieling, conbelow! And as our great ray, traveling across their mass, drave them thus downward with colusted power, ing downward against that roof, shattering issue engaged. wrecked masses of metal upon the mighty structure, anmilitated with all made them on that roof as our great ray drove them down around it! Half at least of ther mass of evlinders perished thus in the first crash downward and before the rest could gather again to whiri up to the attack, our great my was playing upon them also, crashing them down upon the great roof of death, until in only a moment more but a half-dozen of the evhoders remained intact! And these, as their fellows crashed to death beneath us, were gathering and spooling away from

this death that smore from above, were some back toward the dull-gleaming disk of Triton Marlin and Whitely and Randall and I were of creing out in that moment as the surviving eviluders flashed away in flight, and then Marlin and I had turned toward our two friends, "Whitely-Randall-, I" Marlin was saving. "You escaped those Nectunians that first discovered us, then? We saw the fragments of wreckage year pursuers brought back, and Hunt and I never

dreamed you might still live! "It was a trick that enabled us to escape," Whitely explained. "When they discovered us there beneath Neptune's roof-chased us up through that roof and un into the great cloud-belts, I saw that we could not long disk of fire that was the sen, far shead. For it was escape those pursuing cylinders. So, while Randtill drove the flier through the mists and while they searched in Noptune, from the solar system's edge, to carry back word those mists for us, I bettered and broke with himse of a to earth of the nature of the down that hung above it large tool some of the spare plates and instruments we and to gather earth's forces to forestall that doom! carried. Then, as they came closer to us, their force-rays slicing through the mists in search of us. I cost those fragments loose from the flier, and when they strude against the nursulae evinders in the mists, when those cylinders saw the wrecked fragments, they had no doubt but that their force-rays had struck us semewhere in the cloud-layer and annihilated us. We lay in the chrosols ing mists until we saw them returning toward Neptune's surface. We realized then that you two had been contured by whatever manner of creatures these Neptunians were, and saw the cylinders, with you in one of them, going down beneath Triton's roof. For days, therefore, Randoll and I voited around Tring's perfore business against hope to get down lastife in some way and find

you, and had almost given up hope, when we saw the cylinder you had soolen racing up from Triton, and wore able to save it and you from the pursuing evlinders. "But you, Marlin-Hunt-" Whitely continued, "You have learned how and why these Neptunians are sending forth the great ray that is turning the sun faster? We saw that ray and another great ray on ormosite sides

of Triton-Is it not possible that we slose might be able to halt that ray?" Marlin solomely shock his bead, "No chance, Whitely, for us," he said. "Perhaps no chance even for all the forces of earth?" And quickly he told, while Whitely and Raudall listened enthralied, of the captivity of us two in Triton's stronge and awarning world; of the gigantic tale of Neptune's post and the surpose of its possiles, as it had been told us by the great globe of the Council of Thirty; of our desperate escape and flight across the dark side of Triton and our wild crashing poward through the roof and out from Trium. "We along," Marlin con cluded, "can never halt either of those great rays, for each has countless cylinders and Nentunians within to guard it, and each has twenty control-boxes of which one alone can keep it operating. No, owe one chance is to get back to earth, to gather there the press flost of sourcefliers which the World-President and the World Congress planned to build in our absence, and to come ore in that great fleet with the most powerful wrances mailthic and cadeavor to crush these strange Neotuniana, su halt that errest ray of doors that is turning the our ever faster! For unless we can do that, unless we can below carth's first of space-filers out here and bult the great sun-ray, that ray will in sixty days more have finished its work, will have split the sun and loosed doors upon all its remets except Neptune! And so it is back to certify that we must race now at our utmost speed?"

Marlin's solcun voice craord, and there was silence for a moment in the space-dier, we four swine toward each other without speaking. By then the flier, with the tremendous imposus of its flight still driving it forward, had swept on and out over areat Neptune now, out of the giant world's clearly atmosphere and into empty space beyond it. And, with Noptune's givet globe filling the firmament behind us. Randall sassped on again our rear force-ray, sent that my radiating back toward the vast disk of Nextens itself. And then again we were formed deep in our chairs as the flier's tremendous speed accelerated once more, the filer hurtling with greater and greater velocity through the gulf of space toward the far little

toward it, toward our earth, that we were going from

The Gathering of Earth's Porces

CTARING shead into space from the control-chair of

our racing ther, I board Whitely's voice from beside me. "Seventeen days," he was saying "And in two more days we ought to reach earth." I notifed abstractedly, gazing shoot. "Two days at the most." I said. "We're inside Juniter's orbit now, and once through the sateroidal belt, there'll be nothing to

delay us." For as Whitely and I gazed outward, Marlin and Randall sleening now in two of the smoot-flier's bunks we could see that we were approaching, indeed, that belt of whirling assemids that marked the division between the four inner and the four areat outer signets of the solar system. To the left, despring behind us, gleaned the gigantic cloud-beited sphere of Jupiter with its stately train of attendant moons, as great a mystery to us as when we first had passed it. A side force-ray was holding the flier out still from the mighty planet's attraction, while about and to the right from us now element crimson Mars. Yet it was not these that held the own of

Whitely and myself, nor even the increasing flery circle

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AMAZING
of the sun before us, but the bhish-white little spot of
light that was expanding slowly in size and brilliance as

light that was expanding slowly in size and befiliance as we shot on toward it, the lattle spot of bluish high that was our planet, earth.

For days we had gazed soward that little light-spot as our spice-effer went on and on through the solar systemic

our specifics were on and on through the soint systems want reaches toward. It. For awardened adays, sow, even as Whitely had sold, we had been reading knowed from Negimer at intensity speed of our art deposited former plant for the sold of the s

with successive fits of mouse and unconstitutes. And tonce, just after the fit seeps in page gets. Starm, and its mighty rings, fourful of those great rings after our foctore misdeverme with fitten. It has awakened from my steep-pariets to find Rushill and Marlin, in the emtral-claims, quite unconscious from the file's trentile acceleration, the file: loself speeding assuad without any politic hand on its octobal. Yet toopies this we had grainly driven the file to the untoot toochemistic possible, its speed standily mountile.

toward the maximum in those succeeding days that we flashed inward from Neptung. For behind us Neptung's calm, green little disk of light, though diminishing steadthy in size as we recoded from it, seemed like a baleful sirral of down shining there behind us. For out from Necture, or rather out from its moon. Triton, the giant force-ray of the Neptunians, was still radiating toward the sun, thus shadowing all the salar extens with the cataclysmic doom to come. For, as we flashed inward, mine the fact that the sun's rotatory period had now decreased to a little over eight days, and was decreasing still by the same amount of four hours each day, its sais. accelerated each day by the same amount as the colored force-ray from Triton kept upon its side its unreleating pressure. And within half a bundred days more, as we knew, that retatory period of the sen would have decreased until its huge mass would be splaning once in every hour, would be spinning then so fast that it must inevitably he riven sounder into a new dealth star for its own centrifugal force, enguling all its planets save

So it was that we seared not ourselves but drove the space-flier in through the solar system toward earth with a speed multiplicable, almost, using an acceleration than was all but death for us. For the one hope of presynting that colosad sun-estaclysm, as Marlin had said and as great source-flier fleet, which, if the World-President and the World Congress had not failed us, would be waiting on earth for us. With that flort we must sally back across the solar system ence more to its outer ofce, to prost Nenture, and must fall man Triban and the gives Speceray that was shooting from Tribun to the ern, with all our power. If we could vanquish the Nectonians long enough to destroy the glant sun-ray's mechanism, to halt that ray, we would have halted the acreleration of the sun's seen, would have saved the sun and its planets from the catadyomic doom that now thecatened them. But if and has points there is attragging with them, since I had now nothing could belt the down that they were that one nothing could belt the down that they were that the source of the sour

dees and great weapons were too strong for us, then we

Neptume. So their now there lay over my model that deepening dashow of impensing enlocad illustrate that had beered over all our minds during the strange days of our racing insured through the solar system, smoking me gate somethely enough toward the libriah light-upst in the decliness of space for shauld hat was our goal now. To this left, though, Jupiter's great gifted had decoped for behind now, and as I was that I can out our sideony, and turned toward Whitely.

"We're at the eller of the asteroidal belt now," I took "We're at the eller of the asteroidal belt now," I took

"We're at the edge of the date of the form we', I told him, "but I'm not going to slow our speed, We'll just flush on through it and take our charton."

He nodded gravely. "I'll wake Narfin and Randall now so help me keep watch," he said.

A monent hater, having dane so, Martin and Randall.

freed themselves of the strars of the busics and climbed across the filer to take their places beside Whitely in woaching for the great menacing asteroids. And as we passed on through the belt of those whirling perils, Marlin and Whitely and Randall watched for hour on hour there beside me, though so vast was the maximum speed at which our fier was roing now, more than cight million miles an hour, that before they could more than get a finshing glimpse of a nearby awteroid we would how record it. We were relying almost wholly on blind change to take us through the asteroidal belt at that to earth from the solar system's calet, that we needered to trust thus to chance, rather than to slow our speed or for the time, favored us, for seroe hours later we had won through the perils of the nateroidal belt without more thus a few split-second glimpues of the great whirling coheres of next. And then, as we shot across the orbit of More with the planet's dull red shield still farther to the right, I began to slow our terrific speed, for by this time the earth was expanding rapidly before us.

And we see that the second section of the sectio

NCE more we felt terrific unward and forward pressure in our chairs as the flier's speed steadily showed, dranged swiftly from eight million miles on hour to six and then to five and then to three. And as we shot in thus toward earth, the millions of miles dropping shower behind as our filer's erest faceted ball effekted through scare at slower and slower speed. I knew the same question was in the minds of gov three friends as in my own. It was reflected in the temple environ eyes of Martin and the imperturbable eyes of Whitely and the unwortedly grave eyes of Randall as the three stared shood with me. Would the more-flow that the World-President and the World Congress had promised to build be ready? If not, we knew we certainly could not venture out to Neptune and put an end to the great doem-ray that the Nerdanians were stubbled toward the

sen. So that it was in a prowing auscense of spirit that we watched earth's sphere, with its crescent of bluishwhite light at one side, expanding before us At ever slower speed we were rushing in toward it. and at less recovery at less a few hypothesis threeward miles an bour by this time, were driving in out of the void and past earth's shining moon, gleaning in space to our right, its great ranges and strange craters clear to our eyes from its airless surface. But now all our eyes were on earth ahead, since now through the drifting cloudmasses that floated in its atmosphere we could make out the great bluish globe's surface features, could see that western Europe and North Africa lay in the sunlight in that crescent of light at earth's side, but that the North

and South Americas lay in the shade of earth's outer side, in the darkness of night. It was toward the dark half-seen outline of North America that I was heading the filer, for by this time, traveling still more slowly, our velocity now being less than a thousand miles an hour. we were entering earth's atmosphere, the rarefied air of its order reaches roaring shout the flier as it shot through it. "Straight to New York-to the World Congress," Marlin was saving. "There's not a minute to lose." I nodded silently, at the same time ampoint out the front, ray of the filer that was alconing our mond on was

shot toward earth's surface, and as its gravitation gripped the filer we were turning until instead of rushing onward we were falling to its surface from high above, as it turned in space before us, falling down toward the surface of the North American continent, whose outline was visible from our great height through the shifting cloudscreen. I felt my heart beating rapidly as we shot thus downward, forget almost the mighty import of the mission on which we were returning in the mere fact of our return; for we were first of all men to venture thus late the outer void and to return from that word to earth! And so we shot downward I saw the some thought mir-

noted in the faces of the others, staring down with me. Down-down-with an obline ray I was making the source-filer fall abentingly, more and more slowly, toward the northeastern coast of the continent beneath, whose broad, brown surface stretched out greater and greater beneath us. Moments more and as the root of air about us intensified, mineline with the throbbine of our generators, we shot down from the sun's light into the durkness of this dark side of earth, this night of earth's one side. But now its great surface was changing from convex to concave beneath us, and now as we shot lower still Randall pointed downward and northward with a low cry toward a spark of bright red light, the beam of the

rest air-beacon of the trans-Atlantic air-liners, at New York. Slower-slower-and in moments more the vast most of its towering cylindrical buildings ablanc with outlining lights, was comme into view, with midmost among them the greatest of all, the hope mass of the As our accordier dropped slowly toward that mighty structure beneath my controlling hands, as it dropped

ing to and fro over the great city, so familiar was the scene beneath to us four cosmic voyagers that almost did our reest insures our mighty fight out through the arm's planets through the countless learnes of space to great Nection, and our grotestne and dream-like adventures upon Neptune and its moon, seem to us indeed no more than dreams. But as we shot lower we were startled from this strange state of mind by one of the position-lights along its hull, driving up through the darkness toward our groothly falling space-flier. We saw amazedy toward the elegeing, faceted metal hall of our flier as they circled us, and then from their craft had bernt not a series of brillions periopland sional Tobas And as these blazed out there came a magnest later an maswering blace of lights from each of the swarming

eraft below, that shot up now in hundreds toward our Down through the darkness we dropped still, those sworms of sircraft almost instline us as they seetled thickly in territic excitement about us. As we shot downward over New York's surface we saw that across all the vast city, and far across the great sir-docks to the south even, sleval-lights were blasing out, a wild panorama of bursting lights stretching out in all directions! From heneath, too, there came up to us now a terrife mor of mineled voices, the vast crowds in the streets of the huge city sending their cheering cries up

falling flier, econoling crasily about it!

to its in a great thursder-roll of sound as we fell toward them. And as I held the sease-flier to its smooth drap downward amid the swarming aircraft. I saw that Marlin and Randall, and even Whitely, were gazing across those yest, shouting through and across the swaros of stadledarting aircraft that entircled us, with somber, thought-Now we were falling a few bundred feet above the roof of the World Government building, on which a lit-

tic knot of figures awaited us, and as I gazed from it across the other roofs of the great city I uttered a low exchanation. "On the roofs—von set?" I asked "Those things of metal-those space-fliers-I" But they too were gazing toward the roofs, toward the immunerable crystal-like metal forms that we could

half-recognize on those roofs in the darkness. But a elimose only we had of them before the source-flier was sinking downward to the great roof itself, and as Marlin saw the knot of figures on that roof he half-turned. "The World-President," he said, quietly, "waiting for us on

the roof." That roof's flat expanse was just beneath us, covered itself with other great crystal-like gleaning fliers, but space-flier's framework. There was no framework there now, but smoothly I brought the flier down upon that snare, down to the roof, poised it a moment a foot show it, and then let it sink to the roof's surface and opened a half-dozen of the switches before me, the throbbing of the generators that had been enduring for so long censitse and giving way to an unaccustomed silence that was strange to our cars. Then Marin had turned, was ovening the igner door, and in another moment the enter one had swang open also, a flood of cool, clean air rushing in upon us. Marlin leading, we stepped out, stead unsteadily for a moment on the great roof's surface beneath the brilliance of the lights that flared above it.

From beneath and above came still through the night the uncession year of the erest crowds in the hume city's streets sed the hum of its swarming, seething sirersft, and then we saw that the little group of men on the roof beside us were coming toward us, the World-President at their head. His strong, keen eyes were steady upon us as he came forward, his hands outstretched, and then he had gripped our own hands, was holding these for a mornett in silence. In that moment we were all four swaying a little as we stood there, eaging about us at the far-flung lights of the great city around us, at the men before us, at the strangely-dulled stars overhead, as though never had we seen them before. When the World-President spole, his harran-sounding voice seemed

"Martin-Randaff-Whitely-Hust-" he said. "You have come back then from your mission?" "We've come back-from Neptune," Martin said "The World Congress is already guthered—is woiting

for you," said the other, as simply, and then with him and the officials about him we were walking toward the stair-opening in the great roof, were walking through ranks of the great looming faceted things of metal that I naw now clearly were realized such of our own value hedren-like space-dier!

Down through that opening we word, down stairs after stairs until we were enserging through a high door on the raised plutform at the end of the great room to which the World Congress awaited us. Brilliant white light flooded that room and in it, in silent row upon row, were seated the twelve hundred members of the eman Congress. As we four entered, with the World-President and his officials, there was turned instantly toward my every eye, and a tence bush of atter-allegee actual in which our own steps seemed loud to our enes. There were no shouts or cheering cries from the Congress' members. in that moment, for all knew that what they were to bear now from us was the word of hope or hopelessment for earth, the report of our great mission upon which rested earth's single charge for life. And as I seemed seems the errat, silent Congress in that morney, there flushed more the screen of my mind, strangely enough, a picture of that other silent, solemn council before which Martin and I had stood but a few days before, that Cornell of Thirty of the strange Neptunians whose great synchronizing riobs-mechanism had sociom to on. Then on we stood there, the World-President was stepping forward to ad-

"There is no need for me to tell you who are the four mea standing here before yet," he said. "Marlin-Whitely-Randell Hout-these four who went out to Necessia on the earth's behalf, and whom earth has been ly awaited now for weeks. I do not know, any more than you, what they found there, what chance for earth they found or failed to find. And it is that that we, the secrescutztives of the world's peoples, now wait to hear from Marlin, the leader of this great expedition." Unter silence held all present.

pravitation, and with face drawn, but eyes steady and bright, was steeping forward. Facing the great rank on rank of members of the World Congress he stood, while we others aligned into the seats believed him, focing them for a moment in tense sileace as he summoned his energies to sneak. In that moment, as my eyes roved across the great hall, I made out the faces of many there known to me, the face, just beceath our platform, was that of my chief at the Intelligence Bureau, Markham, the faces of many others, strange and yet familiar, all turned now toward Marlin. And then, in a voice low at first but gaining in power as he went on, Martin was speaking to them, his words sounding out through the great room in

A ND as the World-President stepped back, Marlin, unstready still from our maccustomedates to earth's

a broked, unnatural silence, He began by reviewing in a few sentences the colessal peril that had threatened and was threatering us, the increased spin of the sun beneath Neptune's mighty ray that soon arest result in its division and the solar system's doors. Then, with a reference to that other gathering of the World Congress at which our venture out to Neptons had been decided arous be came to the start of that venture. While they listened in otter tenseness he told of our start, of our going out from earth first of all mea into the outer void, out past the navateries of Mars with greater and greater speed. Our onward flight through the terrible dargers of the great asteroidal belt and our narnow excupes in it, our outward rush past mighty Juriter -these he described in his steady voice, and we felt the

tenseness that held all in the great room in dead allence

He told them of what down had nearly been ours at

Source, of our fall toward its great rines of death and our surrow escape from them. Then, with a little passe, he was going on, was telling of our coward flashing flight beyond Seturn out through the west certer reaches of the solar system, out past the orbit of Uranus toward Neptune itself. In unnest suspense they listened as he told of our arrival at last at Senture, of our amarement at finding that plant world shickled with an enclosing roof of metal, and of our greater arrangement at finding that world, the colosul cire that covered it, utterly dead and deserted. Low exclarmtions of supprise leake from his listeners then as he narrated how he and I had been surprised in the dead city of Negcone by the coming of the Necturious in their cylinders, their attack upon and purgrit upward of Whitely and Randall in the space-filer, their capture of correlars and their taking an from Newture our to the more world of Triter. And a low wave of succentraliable excitement swept across the great room as Mariin told those in it of the roofed and warmed world of Trison and the countless millions of Neptunions on it, and above

all of the close force-ray that was stabbing from Tribur's susward side toward the san and loosing doors upon us! And that excitement intensified when he told of what else up had found at Triton, of the other clear force, ray stabbing out from its other side toward a distant stay of Societarius, of our ennivity there and our learning of the Nectonian teneral, our being brought before the prest Council of shirty of the Neptunion races. I saw the humbands before as listening with shoted breath as he told them that gigantic epic of the solar system's past that had been told us by the great globe-mechanism of the Council, that story of the Nexturians' rost history and

of the great doors of increasing cold that had driven

them from Nepture to Triton and that now had exused

them to seek to split the sun itself to thwart that doors. another great force-eav years before, to brace Triton against the back-pressure of the sun-ray and to keep at from being hurled out into the great yold, how they had finally sent out the great force-ray toward the sun also. turning the sun ever faster toward the doom of all the own race. These thuses he told them through the husbed silence that again had replaced their stir and morrour of excitement

But excitement held them again when he told how he and I, desperate at the doors we saw hanging thus over had dared to cross its surface and had stolen a cylinder. crathing up through the great roof and out from Triton in that colinder with their correct close behind on how we had been saved from that recruit by Whitely and Randall in the space-flier, who, although we had thought them dead, had managed to check their own attackers by a ruse and had howeved near Triton in hones of saving us; how in the stace-flier we had fled back from Triton and they were over Neptune; these things, his voice deep now, he told to the hundreds of his listeners. And then, awaying a little from shoer otter wearings of body and soirit. Marlin told them how we, knowing that never slone could we halt or even reach that plant ray driving from Triton toward the sun, had harded back for earth at the atmost speed of which we were capable, had flashed back like some areas messeneer-meteor through

and hend back to Nenture with them for a lost calling attempt to halt that mighty ray of doom! When Morlin's wrice had seased, when he had strongd unsteadily back from the platform's edge, his words seemed reverberating still through the husbed silence that prevailed among the twelve hundred massed members of the World Congress. Then again the World-President, his own face as set and strange now as those of the

"You have heard the report of Dr. Marlin and his three companions " he said, quietly, "and you, and I, and the possits of earth listening now, know what situation faces us, what last necessity, even as was foreseen, has prises before us. That elast force-ray of which Marlin told you, that colossal ray which these Neutunians are stabbing toward the sun's edge from their for moonworld of Triton, is turning the sun ever faster, as all of you know, is decreasing its rotatory period by four hours each passing day. Within hardly more than forty days fatal period of one hour, will have increased its soin to that critical fatal speed, at which the sun must inevitably divide into a double son, a double star, engulfing our planet, and almost all others, in fiery death in that course cataciyen. This is known to you and you know, too, that it is only by holting that giant force-way from Teiton that we can save our sun, our world, from that tro-

"This much we have known, indeed, and now with what knowledge these four men have brought back from their unsurableled venture out through the gulf of score to the solar system's edge, to Neptune itself, you know also what lies before us. We have, indeed, built during the

absence of Marlin and his three friends that error first of snace-fliers, which we had decided to build. Using the plans of their original space-flier and applying all our effects toward achieving a countity production of spacefliers on those plans, we have been able, as you know, to construct in their absence no less than five thousand space-fisers exactly like their own, space-filers that rest now upon the roofs of New York's great buildings around Us. consulete more with trained crews and ready to wart! The gathering of earth's forces less thus already taken

"And mon this great fleet of space-fliers rests now the fate of the solar system! For that floor must so our through the solar system now to Neptune and halt the giant ray radiation from Triton's surround side toward the sun, if the solar system is to live. What perile, whose opposition that fleet will meet, Markin has made clear to you. These Neptunions, most ancient and mighty of the solar system's peoples, are of coloural nowers, each powers that they are screpting not at solitting the sem ders that can whirl through space as swiftly and as well as our own space-fliers. They have as weapons their concentrated force-rays, which we must provide for the fliers of our own flort before it leaves. They have an ancient science and might that can produce we know not what weapons against us, and they know that our four first venturers escaped back to earth, and will be exporting now an attack from us, will resist that attack with all their powers, undoubtedly, since they are fighting for the existence of their races, their world, even as we the solar system to earth to earry to the peoples of earth are fighting for ours! word of what we had found, to gather the forces of earth "Thus this ereat fleet of five thousand space-fliers of

curs roes out to battle, to battle between the races of Neptune and Earth that most decide the fate of the solar system for all time. There can be but one fit to lead this fleet out to meh hattle, and that is Murlin himself. who was the first to discover this peril that hazers over us, who was one of the first to suggest a means of strugpline against that peril, and who has led this first during venture out through a thousand perils to Neptune, and massed members before him, was stepping forward to back again to earth with the knowledge without which we could not act. So that it is be, with these three common. ions of his Whitely and Hust lend Randell, who dared all with him and who have done for earth what he has done, as his three lientenants, who must command this great exception of ours which we are sending out to earth]

"For it is this great fleet of space-fliers, with Marlin at its head, which alone can halt that doorn now! If that fleet can win safely out through the perils of the interplanetary void to Necture, can win to Triton's sencan destroy the controls and generators of their great sun-ray, can halt that ray, the sun's sein will coase to accelerate and our planet and the other planets will have been saved. But if our fleet cannot do this, if the Neptunians prevent it from reaching the great sun-ray's source, and from halting that ray, then the sun will spin on ever faster and within two-score more days will split at last and enrulf in the diversing fires of its two new suns, all the planets save Neptune. For it is this great space-flect of ours, heading out now toward the last great battle of Earth's and Nontune's races, which alone now can prevent the accelerating speed of the sun and the consequent wrecking of our universe!"

"MARS shead and to the left—once more!" As I uttered the words Martin and Randall and Whitely, leside me, were gazing to the left, with me. "Strenee," and Randall, "I all seems, almost

as when we first went out past Mars." Strangely similar, indeed, did it seem to all of us, the nanorama that now again stretched all about us, visible through the racing space-flier's windows, as we sat in the four control-chairs before them. For shead and away to the left ricamed again the dull-red disk of Mars, farther now from us than on our first trip out but seeming almost the same. Ahead too, and close to the right, shane mighty Juniter, and beyond it on the left the vellow spot of Saturn once more, with far beyond it and straight tune. Reblod, too, the bloish light-snot of earth and the lessened fire-disk of the sun were as before, and as before the blazing stars that jeweled all the deep-black see innumerable tiny elemine points moving forward at the same speed as ourselves through the void, keeping pace with us in regular formation, a great V-formation of which our flier was the point and that moved steadily on through space. For those tiny points, extending back

filter of that great they do five thousand space-filters which can own, the thingly, was boding our trength the what years as to Negman! Now we had been floring; with the Negman sow, we had been floring; with the great filter beliefs or form earth, our treats the solar systems capte on our mighty consilion, and five blay a possed since we had now before the Ward Consistency of the contract of the solar so

letown between-the whire of preparations for the part of the colonal Bact. For in those three short days Marino with the energies of a world at his hidding, had strained every norve to conspicts the last preparations of the great armeds of space-three which he, with us there as his internation, was to lead out on its unprecedented flight to

Acquire. The most necessary perpitation was the epolyping of the first thousand space-three with the concentrated forceage weepons used by the Nepanistan in their spacecylinders, those concentrated rays which, instead of prabling against what they struck, not thought it with devires power. Perfundely, the production of these consentrated may required only the abilition of period martier rays optingly bettly the require ray-optings in the sides of the procedure, but over no it is strated the expection.

those smaller optimies in the short time smallished. Eith of the few themsand pusced lies hald is crew of eight, their operators having been trained during our alseace as for as the filter themselves that been book. We four in our you apace-liter, the flagship of time great first, had four additional crew-combens now, four mechanioperators who worked in shifts and traded considerable operation of the first's warken mechanical equipment, then the shift of the shift of the shift of the shift of the purchase of the shift of the shift of the shift of the purchase of the shift of the fleet itself, though our of us retained the controls of the filer itself. Amother preparation that had been made during our absence had been to equip each fire with appearance in the control of the property of the page amount carris would prevent it. Inactioning from the control of the control of the control of the communication from space-filer to space-filer while in some limit, and then would allow Markin and us to control of the control of the control of the control of the space limit, and then would allow Markin and us to con-

trol with spoken orders all the great flost we led. This the last preparations had been completed and three days after our arrival at earth the great fleet of space-fliers had taken its departure, the five thousand facrited polyhedron-like filers rising as one from the flat roofs of New York's countless gigantic buildings. Oure more we had started at night, and it seemed that all of the neonless of earth had assembled in and ground New York that night to speed us forewell. The yest crowds that had worded our single senso-fier start out on its first trip weeks before, were as nothing to those vaster crowds that had watched the error fleet leave since all on-earth knew now what word we had brought back from Nessune and knew that in two score more days, unless this fleet was successful in its tremendous task, unless it could win through the Necessian opposition and balt the guest sur-ray, that all on earth would perish in flaming

Thus surely there could have been no tenser manuant in earth's history than that, when, with the World-President and the massed members of the World Congress watching again around us, our flambio had risen from the roof of the great World Government building into the night, firshing up and outward once more toward Sarittarius, toward pracen Neotune. And behind us almost instantly there had firehod up in regular timing and formation our five thousand following filers, racing out and after us with colousal speed like ourselves and fiving in that hollow triangle or V-focusation behind us. That formation had been adorsted so that the rays of the fliers of the fleet, driven back toward earth to push them on would not strike against other fiters behind them, as would have been the case had our fleet moved out in a compact mass. And now for forts-cight bours out five thousand space-fliers had been burtling outward, with our own flaming still at the roex of their formation.

And as we four sat now again in the four controlchairs, two of our mechanic-operators watching over the superators behind us and the other two asless in their bunks, we had a somewhat different array of controls before an Refore movel were the controls of the flies itself, suchement, with the six switches that directed its proposition force-rays from the six openings. Marian though, to my right, had before him now as well as his array of astronomical instruments, the black moutholess and speaker of the radicthone, as well as a compact array of match atota he which he could made to and hear from the various smadron-leaders in the event fleet behind us For convenience in giving orders, the five thousand flient of the flort had been divided into fifty squadrons of a hundred spec-fliers each, and it was to the designated leader of each soundron that Martin gave his orders.

deed filers of his speadron.

Before Randoll, too, to my left, were new controls, the
control of the concentrated force-rays which were to be
our fleet's weapons even as such rays were the Nepturinsa' also, and with which our fleethis had of course been

equipped. Those coursels were two thick metal levers of no great eite, with hand-grips at their end, and of which controlled by his position the side of the filter from which the economized density gray was also from, the other controlling the sizes or exact elevation are which that any Whitely had before this all the sponse-first remaining controls—those of the generators, air replesiblens, the window the whitely and before this all the sponsible or window the control of the presentants, air replesiblens, the window the control of the presentants, air replesiblens, the window the control of the presentants, air replesiblens, the window the control of the presentants, air replesiblens, the window the control of the presentants and the sponsible control of the presentants and the presentant of the presentants and delivers on now as the great there is hand, with Richina and

down on now at the great flow's head, with Marlin and Randal and Whitely and myself guiding to the left soward the nearing crimion; sheeld of Mars, we had each before to some vital part of our great flow's or our filer's central, Guiling toward Mars' red disk, Marlin becket the silence. "We'll need no side-mys this time to held in our

free, "We'll need to sade-rays this time to hold us out freen it," he said, and I noticed.
"No, it's far enough from as now, and the speed of

our firets will take them safely past—is taking them past now. But it's the asteroids ahead that I've been thinking of."

Marths somberty shock his head. "There's no help for it, Henn," he waid. "We'll have to lead the flor stright through the asteroidal belt and reast to chance that as few of our filers as possible will be struck." The fellowing hears, hieroritos, were perhaps the most tense and terrible that ever we had captrienced. For as we shot on part Mrss and through the green belt of whist-

any asternois, it was not pensible for the first Boussaid space-flows of our freet to nancever on a swill done unserolds. We must held straight on in our regular formalies, we have, he all our filters earlies one low the other, so in that formation we were steadily on theselph that years to not of shide. And hardly had we entered its reservation of shide. And hardly had we entered its reservation of the shide. And hardly had we entered internety as myself, than one enquoting offer globe learned suddept before two, overeign pour as with merityingchosenes, and then as it what part there mus audendy in the haddening of same beliefs in a secondary flow.

fiery light, that flared for a moment and faded. The asteroid, we know, had struck a fter close behind so! From shead and from either side still, as we seed on. other asteroids were rushing, following their complicated orbits as our great first's ocen triangle of scare-flient moved through them, and now again and again still behind us came other flery flashes in quick succession, flashes of flame which each marked the instant degrees. tion of a space-flier and all its occupants! Yet there came no word, no protest, from any of the sonre-diere behind us, all were going steadily forward at multered steed and in unaftered formation through the steat belt of whirling death. And though, within a few hours more than a score of our souce-filers had hern anothing lated in white-hot and soundless flashes of fire as they were struck by the burting asteroids, the rest had escaped

V-dominion in which our fire thousand space-firer for man an alightly filted ristories as to alies the time of side was an alightly filted ristories as to alies the time of side any to yall our filters, and a side-ray of immerse power it required instead to hade each of an our forcer the rightly measured of the wake system's planets as we sped past its hage and originates sphere. PUT will on and on through the void our mightly

BUT sell on and on through the void our mighty armsted of specifiers was randing, on browned the green spack of Negame that showly smooth beighter for should offer. The being room pad of high beld our egaathened of ser. The being room pad of high beld our egaspain as the left had off salamin's primer size, expossing again as the left had off salamin's primer size, and all our mindow wave contened upon Negames and what mighty stock it was that consider its at their provided and its moon, what surjects of the large root world and it must not useful. Solamin's dath had exposeded showle to it was not useful. Solamin's dath had exposeded showle to be its whiching means, that we gree the should are

time. By this time, for more than seven time in a superfect had been specifing our through the boundless work, the through the solar system, and so it was an extrain bothwark to so that Skinni special as we reserved it, the consequence of the solar system, and so it was an extrain our grant fact close behind, at we drow shocast of the large planer's midify sphere and cubesol rings, it was intensity enough that we four, gardened again in the conline of the special system of the special system. The "The most changerous plant in the solar system."

Sature," and Martin, as we booked toward the large world from which our side-rays now were holding us. "It was clouds almost for us before when we ventured no close in passing it."
"Well, we're safe enough from it this time,"
"Well, we're safe enough from it this time,"

the left—is farther away from us with no darger to us now of chance meteors from its rings."

"Yes, we're safe enough from it now," Marlin admit-

"Yes, we're safe enough from it norm," Mariin admofol, "set of the same fine—".

Before Mailin could failsh the sareds thay were intro-Before Mailin could failsh the sareds thay were introtrome. One someth two sa perships beide up, our space, first finding standily on at his treasmolous speed at the bead of its general training-field, gast buge Statum to the left. The most moment there was a terrific whiting the same of the same standard of the same state of the same short with remembrations towed in groon, gail of the same short with remembrations towed in groon, gail of the same

somet the was being driven with colonial speed in a deficient at right capital to that in which we had been deficient at right capital to that in which we had been deficient at right capital to the same of the capital right private and right and mount it have with defender speed, with an acceleration privilla, county Science, I should an unfainfalled velocity mount the large party. I should through the whiches, and sow whilting about m, the variety of the same of the capital should be a supported to the same through the capital should be a support of world at the most transmission good forced great Science with the capital should be a support of the capital world at the most transmission good toward great Science "Smeart" crief Braddel theories are weither in the capital "Smeart" crief Braddel theories are weither in the

is unid moment. "The controls, Hunt I—we're being shot in toward it."

"The controls don't answer!" I shouted, my hands

"The collines can a master?" I stoolled, any manusfrantically flashing over them. "Something's driving as into Sastro-our rays early hold on our—" "The Neptonious! There behind us—those great cylthat was parking our flest with colousal power in toward lise death in great statum's mass of rings and moscul. The Negominton had come out with those great ray-petr-cuttons, those questive cylinders, and with a portion of the colours, the colours of the colour

"An ambuch!" I cried. "An ambush in space—the Neptunians are pushing us in to Satura—our fleet con't

live for minume duril."
They to long our filler out of levels out of their pay.
They to long our filler out of levels out of their pay.
I worked framinity at the control before one, but he had not pay a label to pay

The thought maddened use and with a system decree

see inspiration I ceased to direct our firm's rays about

against Saturn in vain attenuet to balt our rection flash forward, but instead suddenly shot a ray back against the mans of Neptunian cylinders no longer visible in space far behind. As that powerful propelling ray struck their cylinders' mass, our reeling filer leaged forward with even greater spend toward Schern, and as it shot forward thus faster than even the huge ray from behind plone could reach it, it was slightly freed from that yast for's pressers, and I could edge it proport a little from that great rso's path! Up-up-while Marlin and Whitels and Randall watched with white faces beside me, while our space-filers and all the fleet's around and behind us carse on at terrible velocity toward mighty Sature that now filled the firmament before us, Up-up-and as I saw that we were winning gradually up from the great ray's path, I shouted to hiarlin, heard him with his radiophone appearant quickly order all the fleet's filera

radiophose appearant quickly order all the flee's filters to follow my canaple in an effort to wis up from the great risy's prinsures. Only the filters appearant in that any's path, though, the our own, could hope to get clear in this way, but as we sweep on, gradually one own filter and perhaps the core of we harden dotten out of our great many that the contract of their filters and the same and the filters are the contract of their filters and the filters are the contract of the through who they are possible presents.

"Back to the Neptunian cylinders?" Marlin should into the mouthrince before him. "Unless we can destroy the greater cylinders whose ray is pushing the rest of our

feet into Satura, we're loag!

And lades now our fifer and the five hundred others that
were clear of the my libe it, were rushing, beds away
from Satura, whith the remaining themsends of spronfilers of our fleet, untile to get clear in that way of the
work my's pressure, were being driven on by it with nerwork my's pressure, were being driven on by it with
we must destroy the greater optimized search
We must destroy the greater optimized the profess that my
we must destroy the greater optimized the mass of our fleet
from the tax my, we know, before the mass of our fleet

our own flagshly at Both bead, were that similard in light through the bladk glower of spare, has knowed the two through the bladk glower of spare, has knowed the two through the bladk glower of the bladk glower of the policy of the bladk glower of the bladk glower of the policy of the bladk glower of the bladk glower of the count before and beatonsh is in spare, the core or more may our fleet to doors. Before very the Napusilian is only the complete of the bladk glower of the bladk glower has the complete of the bladk glower of the bladk glower of the complete of the bladk glower of the bladk glower of the complete of the bladk glower of the bladk glower of the complete of the bladk glower of the bladk glower of the complete of the bladk glower of the bladk glower of the complete of the bladk glower of the bladk glower of the bladk glower of the glower of the glower of the bladk glower of the glowe

crashed into Saturn, and so our five hundred space-fliers.

Neptunian mass of motionless cylinders! Down like light we flashed upon them through the black gloom of space, and a wild exhibitation thrilled me through in that moment, as we flew downward. The immense blackness of empty space around us, the far fiers disk of the sun and the bright sparks of Jupiter and Neptune burning inward and outward from us, the vast ringed sphere of Saturn behind us-these seemed to spin stoute around our filer as with its fellows it dove down through the shoer devicess of the waid toward the masuspection Negetanian cylinders below. Martin was grinping the control-board's edge, staring downward with the radiophone mouthpiece close before him, Whitely at the other side garing down with his calm eves ablaze for ouce, while Randell grasped tightly, with his face set and stone-like, the two levers of our concentrated forceray weapon, and while with my own hands I held the controls of the filer's propulsion-rays, and sent it assocraing down one of the upper void now upon the Nepturians, even as the burdreds of our fiers around an awnowed Then, as those cylinders knowed greater close beneath us Randall had swung sharply the levers in his hands and as he did so there had emerged from our space-filer, and from all those about us, ray seven roy of concentrated terrible force, stender and pencil-like rays of pale force,

the massed cylinders beneath! I SAW in that whirling instant score upon score of the

A cylinder below clause shough by those twells the group on a full of the store of gentale cylin being the group of a full of the store of gentale cylin fragments at our rays next through them? For the grantest at our rays next through them? For the cylinders were morped tegather in a suffice-actional case, fragments of wretages and thick-foolist Symmetry of the cylinders were imported tegather in a suffice-actional case, fragments of wretages and the cylinders within grouped tegather in a suffice-actional case, fragments of the cylinders within growth them. The contraction of the cylinders within growth the cylinders within a sufficient case of the cylinders within a sufficient case of the cylinders within a sufficient case of the cylinders and the cylinders are considered as a consideration of the cylinders and the cylinders and the cylinders are considered as a consideration of the cylinders and the cylinders are considerated as a consideration of the cylinders and the cylinders are considerated as a cylinder and cylinders are cylinders and cylinders are cylinders as a cylinder and cylinders are cylinders are cylinders and cylinders are cylinders and cylinders are cylinders and cylinders are cylinders

that crashed down with awful cleaving power through

But now, as we shot toward them, the Neptusians had rallied from the first supplied of our crashing attack own upon them, and below we could again swoop down upon them, their unharmed cylinder-filera, still more than two thousand in number, had apprained themselves from the centimed wreckage of those we had descriped and were deriving boldy up toward me, to meet yet. In an ever deriving boldy up toward me, to meet yet. In an

other instant they would have overwhelmed us, would have wiped us from the void with their great mass crashing over our own, their concentrated rays directed soward us, but before they could come closer Martin had eiven an order and from our own racing fiers there had shot out toward the onracing Nepturian cylinder-fliers propulsion-rows that in an instant had pushed us back from their ourushing fleet, back through a great sulf of space in an instant! Before they could comprehend the manerror, another order had sounded, and we were again kaping forward, this time on a lower level, lengther toward the half-score greater cylinders that still remained motionless where first they had been, their combined erest ray still pushing our fleet on to Saturn! The cylinderfliers above, their occupants seeing our object, forted down like falling meteors to prevent us, but were an in-

stant too fate. Before they could do so, our concentrated may had cloven through the half-score greater exfenders and had annihilated them, their combined great ray crasing instantly! "The greater cylinders are all destroyed?" Whitely was saving. "We've seved our feet from death against

Sature, or least!" "Back toward Saturn-toward the first?" Marlin abouted. "We're outmumbered five to one by these Nen-

tunian estinders!" For even as he cried out, the two thousand or more Neptutian cylinder-fliers, too late to save their greater cylinders, but made more fierce by the sight of their deconcentrated weapon-rays toward us! Against those outnumbering cylinders our own few hundred there had no as Marlin should his order, our space-fliers were roller on toward Saturn, the Neptunions leveling out instantly and raging through the void after us in close pursuit. On we shot, their questing weapon-rays taking toll now of our rearmost fliers, and though Seturn was again filling the firmment before us with his mishes closely-swilow disk, his colonial whirling rings and circling mase of moons, there was no sign of our fleet's main body

ahead. Had we destroyed the greater cylinders too late? Had their combined great my pushed our fleet in to clearly against Saturn before we could save it? It seemed so in that terms moment and then close about there komed in black relief against Saturn's mighty beavenfilling disk, a great swarm of black dots that were whirl-

The fleet!" As I cried the words, Martin was giving swift orders

through the moutipiece before him, and then, even as our own few hundred filers suddenly slowed their speed and halted, the overst swarm of dots thead had rushed on beside and around us, had taken form around us as the thousands of space-flitry of our event fleet, falling instantly into their regular formation and confronting thus the Neptunian cylinders that had been so bothy pursuing us! Those Neptunians were too late to halt their cylinderfliers as we faced them thus so suddenly in force, our five thousand filers opposed to theirs, hardly half our member, but they swerved as they saw us, swerved upward and attempted to race above us, raking us with their weepon-rays of concentrated force! Before they could do so, however, Martin 18d intered another order and our fleet had shot up to meet them, so that in the next moment, earth and Neptunian craft had runled together in their two respective fleets, these beside mighty Saturn! , ing past Than's whirling sphere!

As the two erest fleets neared each other there crossed and flashed from one to the other insurveyable slender rays of concentrated force, and space-flier and cylinderther were being clove through and annihibsted by those slicing may as they proved one another! Almost it seemed that we must crash straight into the opportun-Neutunian cylinders, the whole firmment for the moment ahead of us being full of their correcting mass. I saw openings in those executing cylinders from which gleamed light, looked inside and there as one sees this as munipulating the controls as their great mass of extinders shot toward our greater mass of space-fliers. CvInders and space-fliers were being annihilated in that mament by scores by the slender rays that drove across the closing you between the fleets, and then just as we seemed on the point of graphing dead into their accoming relinders they had shot their peopulation-rays sidewise, had swerved aside and were rushing with our own great fleet. which had instantly swerved with them, through the

Side by side for the moment the Nentunian and Earth fleets flew, countless weapon-rays stabling across the exp between them as at disrying speed they shot through the void and I knot our smoot-filer at our fleet's head, as Marlin gave his orders to the fliers behind us, Whitely swiftly mening and closing the controls of our generators sending our own stender and deadly rays shooting toward the opposite Neptunian cylinders like bolts of straight and half-seen lightning! For but instants it could have been that the two great fleets, our own of space-fliers and the smaller Neptunian one, whirled through the void, but cterrities it seemed to me, so tense and timeless was that whirl of awful action. Soon I became aware of a mighter vellow disk that filled the firmament from top to bottom before us, toward which our racing, struggling fleets were flashing, and then I saw Whitely bending across me and shouting to Marlin through the wild whirl of this terrific battle:

"We're heading with the Neptunian fleet in to Saturn !" he was shouring "What this battle will mean in those rings and moons----"We'll keep straight with thous!" Marlin cried, "They are trying to escape from us in Saturn's rings and moons. and get back to Neptuse to rejoin the main Neptusian

So that now as fleet and fleet reshed forward I held our own filer at our own fleet's head, racing forward with the vast whirling system of Saturn's rings and moons stretching damerously before us. Full before us was looming greater each instant the spinning dark globe of Titze. Sajurn's largest moon, and now as our two fleets

renhed side hy side toward it at terrific speed, stabbing still at each other from space-filer to cylinder with the concentrated weapon-rays, it seemed that inevitably in the next respect we must creat seriest the life moon! Seeing this, though, Martin shouted a swift order into the monthpiece before him, and instantly in answer to it our event fleet's troop bore sirlewise assists the recite mass of the Necessian cylinders! For an instant it seemed that the two fleets were merging into each other, spacefiler crashing into evlinder and slender two coming thick, and then the smaller Neytunian floot had given way beneath the pressure of ours, had vecred sidewise

so that in the following moment the two fleets were rush-

And now we were inside Titan's orbit, and as we whicled farther in inst across the eath of another and smaller whirling moon. I saw that Saturn's colossal rings lay edge-on close before our racing masses of craft, gigantic spinning rings of mighty meteor-masses, countless great meteor-swarms whireing there about the yast yellow planet whose sphere now was stupendous in the beavens before us. In another few morecus Neuturiari cylinders and space-diers of Earth would have rushed alike into those thundering swarms of meteors, in which no craft could live for a moment. Already chance meteors were whirling through scace about us as we also on. cylinder or space-flier here and there in the two racing, grappling fleets vanishing in white-bot flashes of head and fire as a meteor struck them. But other and more cylinders and space-filers were vanishing in wrackness beneath the cleaving rays from either fleet, and buth were racing on so intent over our terrific struggle as to notice hardly at all the yest whiching rives before me! I heard Whitely utter a boome cry to Marlin as we flashed forward, heard Markin swiftly utter an order in the mouthpiece before him, and then our fleet, and the Neptunian cylinders at almost the same instant, had shot

rings' edge were slenting swiftly up over them! And now, as Neptunians and Farth fliers drove together up over Saturn's colossal rings, the intensity of the struggle seemed to deepen to a ficrceasus as yet unknown. For the moment it was sheer blind battle without need of reason or command, shoer awful combat there in space above Saturn's whirling rings, with beside us the vast cloud-acrossed vellow solvers of Saturn itself looming gigantic, and with outside the great rings its whirling more of moons? Cylinders and space-fiers grappled in that momens with mindless fury, and with a swiftness and skill of which I had not dreamed myself capable. I whirled our smace-flier this way and that errid the swarming, boiling ruck of the giant lattle, amid the grappling bordes of space-filers and cylinders that filled the air before us, their cleaving concentrated easy slicing this way and that in swift circles of death about ne! I heard Whitely laughing a little from excitement beside me as the hattle reached this terrific pitch, saw Euschill sending our own weapon rays this way and that with

harder Wirstelly hingsheig a hind reion exclusioned bacidsterility and the property size day was did not wish exclusion from our property size day and that with lighting-our fitzens. Muttle guiler out to enough the four hind for least that after loops and the regular fitzens of the property of the property of the property of property of the certain of specifiers had good and the property of the first and specifiers had good and the property of the first and specifiers had good and the property of the first property of the property of the property of the first property of the proper

INSTANTIAY our whiting specediers shat back saiddeely from the WD read of the battle, formed instantly into a long double column of liters with one own lifer at the land, and thus before the suppress Negatiants of the land of the land of the land of the land of the correct operate column had longed forward and had created through their formices mass with a great shock, first and cylinders perioding in scores in that realing creats And then our dealed column had divided, pushing our to wither side and time splitting and separating the Negation of the land of the land of the land of the land to as in sometimes we were in the garman interest. upon dem there above Shitm's rings and scaling solds of cylinders into weekel fragments by the hundreds with our whiching rays. I Paricel fragments by the hundreds with our wild read to be about the contract of the contrac

"They're fleeing!" I cried, as our own spoce-flier whirled around in that moment. "We've beaten these, at least—they're fleeing back to Neptune!"
"Regular formation—all aspadrous!" Marilin was therefore into the machiner before this. "Eafl sead-therefore into the machiner before this. "Eafl sead-therefore into the machiner before this.

"Acquist to mation—all squadrons!" Markin was showing into the monthistor before him. "Full speed out from Saturn—after the Nepoznians!" And as our space-fires, still over four thousand in number draptic the losses of that wild combat, massed swittly together in their V-formation and then were

Now Soturn and its rings and recors was derindling swiftly behind us as our erest fleet shot forward notice from it, out toward Neutune's steady, pale green little light-spot, and after the hundreds of cylinders fleeing before us toward it. With an acceleration that never before had we dered to risk did we lesp forward through the yord now, and so awful was the pressure of that needers. tion spon us that even with our shock-absorbing arearates we were trushed almost into unconsciousages by it. Steadily, though, with the last of my consciousness and strength, I held the space-fiter's speed and course onward, while close behind us there shot after us with the some terrific acceleration, the fliers of our own fleet. We knew, though, that the Nectunians were fleeing toward their great world at a speed and acceleration as great as ours, for we were not gaining upon them. Their massed hundreds of cylinders, indeed, were not visible to us in the great word ahead except by means of our triescope, but with it we could keep them in view and could theck their progress and ours out through the great guilf toward the solar system's edge.

One-ont-fer hour upon hour we thealded through the wold stell two formers (Spenian (1996)), and onegatin toward great Neytone and broard the abst nightage to the second toward the second second to the part of the second second second second second to the word of the second second second second to the word of the second second second second to the second second second second second much feet of opinions, own out to about, and It possible of method second second second second second much feet of opinions, own out to about, and It possible of second second second second second second much second second second second second much second second second second second much second seco

overcome, I knew, before ever we could have to set to Triton and halt there the giant force-ray that was turnwell we knew, too, that in the interval the Nepturises had had time to brild many more cylinders, to make their great float even prester, and that whatever mights wenpons they had devised in that time we now must face.

So that as our great fleet of space-fliers, holding to its regular formation, flashed on and on and on through the great gulf of scace, on out through the outer wast reaches of the solar system toward its outermost planet, our every effort was best upon overtaking the flering Nepermians before us and annihilating them before they could reisin the main body. At the same colossel speed as curretree they were flering from before us, on toward Negtune's tiny green disk far ahead, and though we held steady in our pursuit after them, we could not lessen the gap betweet us. Hour passed into hour and day into choose, less day thus as we throbbed on in that tramondous purstat, hours and days that we could not measure, all things seeming timeless now as our great fleet flashed on

in this terrific pursuit. At maximum speed, at millions of miles an bour, the Neptmians and ourselves were hurtling on, yet they kept out of reach ahead of us, as Neptune grew larger shead. And now that mighty pursuit of ours had become so strange and surgal and dreamlike that it was as men in a dream that we watched and slept and watched in our space-filers as earth's brave fact shot on through the last reaches of the solar system toward its eden. Timeless indeed seemed the day on day, the hour on

hour, of that during pursuit of our floring enemies dut that that pursent had begun to draw to an end, since Neptune's disk was steadily enlarging before us and we had berup slowly to draw closer to the fleeing extinders.) Closer and closer our first, our own foremost space-filer. was coming to those flering fifteen hundred eviladers, and the interval of hours and days of surgeit out from the wild comfor at Saturn seemed as though it had not existed, so tense once more we become as we drew nearer gale green disk and the bright little scor of Triton about and behind it within hours of m, we had come so close to the firring cylinders that their most hustling on in a

conc.Her formation, was clearly visible to our unnided eyes in the void shead. And by this time, in every spacefier of our ourushing fleet, its occupants were warting imperiently for the moment when we would be near enough to losse our concentrated weapon-cars on the floring craft ahead. "We'll overtake these before they reach Noveme!"

Marlin declared, gazing intently ahead toward the eleaning points that were the flering cylinders far ahead. "Well anough for us that we can do so, too?" Whitely commented. "For if they rejoined their main body, the

odds against as might be overnowering !" And now as pursuers and pursued rushed nearer and pearer toward mighty Neptune's great pule-green sphere, they were also nearing each other, our coleaning four thorsand space-fliers drawing closer and closer toward those fleeing fifteen hundred cylinders, though they were a crest distance from us. Beside me Randall's hands were reating on the weapon-gay controls, and as we came closer still to the fleeing Newtoniana T you Martin land. ine toward the mouthnises, nemaring to eithe his under

to the erest fleet behind us. Clowe-clowe-we could clearly make out now the massed ficeing cylinders far in the spid sheaf-pirents alread within securate ray, mary, a swarm of black dots arrangt Neptune's clouds green disk shead. And as we came thus close Marlin Sect into a broad firing-formation and send their rays stabbing ahead. But that order was never oftered, for at that moment Whitely intered a short ery and not muthat the turne man of cylinders ahend was suddenly

slowing. With unprecedented quickness its speed was decreasing before us and in moments more we would have erashed into those slowing cylinders had not Marlin's firm of our fleet likewise. Fearful of some trick, slowing thus, we gazed intently about in that moment and then all of us had evied out together as we say heaved that swarm of black dots that were the slowing fifteen bundred Neotunian cylinders before us, other black deta that showed against great Neptune's disk also, which keemed ereat now in the braxes ahead! Other block dots, an immense twarm of them, that we know were other colinders, an immense fleet of them, ruthing out from Naptune toward the lifteen hundred before as and toward ourselves? And then as in moments more the Effects hundred extinders before us slowed and stopped behind them, from great Nepture, those other cylinders, forming with them, there in space, a colossel semi-circular that faced our own four thousand or more space-filers there in the weid! It was the giant assembled Neptunim fleet, gathered here outside their world to face our own first, in that great strapple in which Earth and Nuntring towns to come now at last to death-orics for the life or death of the solar system!

CHAPTER XV

"You of Neptune or We of Earth!" OLUMN formation-all squartrons full speed

It was Marlin's voice that shouted that swift under in the next instant, and then, even as the gigarite semi-circle of the Nertunian fleet was learning through the word toward us, our four thousand and odd spacefiers, outnumbered almost by two to one by the cylinders massed ahead, had shifted like larbraing from their creat V-focustion to one of a long double column care more and no sconer had its squadrous taken that new formation then the column stanted startely to allow the free use of their propulsion-rays. They were fisshing forward now like an enormous spear cast toward the curving front of the giant Nepturian Sect! For it was Morlin's intention to paret that outnershering mass of calindees by solitting it with a column sa we had done over Saturn to our enemies, and then engaging separately the parts of the disorganized mass. So that now, even as the great half-circle of the Neptunian cylinders whirled through the void to everythelm us, we led formed that long, double column and were dushing straight at them! Holding the controls of our space-flier steady in that

moment. I was aware for an instant of a sense of the unter attransporters of all the wild scene about me-of our

space-flier's Interior with Martin and Randall and Whitely

crounded in their chairs builde ms, of the great column of polyhordroughles, glerning, factored, typoc-filers that came forward through the black gulf of ann-soom space behilde us, of the occurring guen line of the Neptonium cylinders flushing toward us in turn, and of the limitate great files of the disk of mighty Neptons Booming in the black want behind them. All sormed for the moment the pronorant of some strange nighthmare extended about

the procuran of come teacy nightmare steededs about me, but that meanething research of the grigger in an often in our wild reals through the solar systems vanished in the exect instance as some reside bound before us. There were the mighty curving lies of gleaning Neptunian cylinders through which is the next subsection our greek column must crosh. I breast specific mentally for that was cross that must assist arisinfly men clearly considered the contract of the contract o

unthinfulls storms of deadly concentrated mys were ening from fleet to fleet; and then soddesly, at the very instant that we thought so crash into their great apprecabing line, that line opened widtly before us to allow our great odness to read what most otherway lit!

loss our great dollars to resh subserved through \$1 its automatic har we by that undersided an innecession \$2 is automatic har are by the translation of the first and the second our speed, we were through, had shot in our entite oddinate through the copining in their secil-circles, which is standy dosed again behind us. And as it did no, there readout toward each other the expensive distribution of the standy dosed again behind us. And as it did no, there readout toward each other through each of their secil-circle, which are included the standard of their second circle, the closing that of their second of their second circle, the closing that of their second circle of their circle of their circle of their second circle of th

countiess percli-like weispen-rays that instantly clove through hundreds of our gathered space-filers and that started space thick about so with their weredage, own as we sought in vain to answer that terrible rain of deadly rays!
"Trapped!" Whitely was shouting. "They've trapped

us inside their circle—are deteroying us?

For, though out our may need insiring springing faceth
and stacking epitheir aster optimize of the wor that the
hand pathered show to, that there are contamilated as and
had such advantage of pushion, that it was decirating
us in abort order. Our passe-flers had beloan from their
colours-formation now, and in a loose, disorganized mass
were defifting at the center of that agree reing of don's
which the Neptumians had formed about no. Swittly
our filters were poing into wreetings and deets because

our filers were going into wreelage and death beneath the terrific storm of rays from all around us, and then Matthis's voice was flaring as he should an order into his mouthpicos. "All space-filers mass together," he criod, "and turn all your propolition-rays outward?"

your propulsion-rays outward!"
"You'n going to-" Whitely began, but Marlin cut
him short.
"We're going to break up the Neptunians' circle in the
oult way it can be broken un!" he cried.

As his order sounded the thousands of our superliers were obleying, it were massing compactly together at the cortier of the Nepensiand mighty circle. Thus, mosted, they presented for the moment a perform superfor our comine? may, and fast a moment those rays ment our massed open-firm sales. In the over nonment our massed open-firm sales. In the over nonment our massed open-firm sales. In the over nonternoon of the contract of contracting rings! As against that ring of cylinders alone to, and alone our own filters were meased tayether and this shored against each other, it was not they that moved but the cylinders, their generating instantial bearding the conference of the cylinders were harded our lines the word from an lay the purpose power of our great propolation-regard. For the purpose of our great propolation-regard, for the purpose of the conference of the conference of the maintage point of our great propolation-regard for maintage plantiered, and before they could reference, there has come another order from Martin and in a compact formation carnelves, our space-fitters were legaling upon their sharmed manuscal.

those raws shot out, they pressed with terrific power

To right and left, the light, draw the doubly weapon app of our massed spore-filter as we shield the opporuancy and intend upon the Neytonians. Ampir was the revenue; we had upon than in that moment, dree the concurranted rays neer through and wreded handreds of their was opinious; as we sprang upon them! Flering giant Negmark tremmelous given disk thend, they street up reform white we longed after them and lumried them

with every wespon-ray which our space-fliers could emit. Swiftly, though, even as they rushed onward before us. the Neptunian cylinders were drawing together into a great mass again, into a great column-like formation, and as our own column-mass drove beside and after them with weapon-rays stabbing, their registance shruntly stiffered and they were racing in close formation once more beside our own mighty flast, groppling once more with 8 in space as both sushed toward great Nostune. But we had struck a mighty blose at their disorganized masses in the moment of our opportunity. Fully two thousand of their cylinders had been swept to death by our may be fore they had been able to mass again, and now but six thousand or less cylinders remained, racing ahead with our own four thousand or less fliers! The cross orean sphere of Neptime was locally colorand absent and slightly beneath our two comming fleets

with behind and above it the bright little disk of Triton. It was toward Triton even in that wild moment that all of us were curies, toward the source of the seast seen ray that we must somehow, halt. But now the hatric around us had become so furious that we could spage no thought to neight else, since the two mighty fierts, stabbing coasdessly at each other with their slender rays as they slowed their floshing progress forward, were rushing into the outer reaches of the atmosphere of hope Negtune! Its air was rearing about our whirling space-filtre as we shot through it, but as we shot on we saw that the Neptunian extinders were going into annihilation swiften for then were our filers! For they had formed and were meins beside us in their ladf-circle formation, while our ours filers at Marlin's correspond had beauth forward in a long column that could concentrate all its fire of rave

upon the side of the Neptunian formation nearest us! And though slender may usee lightning-bla through files here and there across our own robotime, we saw that their cylinders beneath our fire were being wrecked in scores, in burplewis! In that wast running light we were fast examing the olds against us!

Maxim's eyes were gleaming with excitent as we saw the Neptunians thus falling beside us under our constraint free of rays, and Expfall and Whitely and I were almost beside ourselves with exthatles. Faster were falling the Neptunian cylinders bearant our rain of rays, the tays of their force cylinders being beld from us by this own cylinders in the fall formation. Already, as

They're going to -----

we thundered through the mists of mighty Neptune and low over its pleaming surface, we saw that the Netcunian cylinders had been reduced by that deadly fire of ours to hardly more than three thousand, to hardly more than our own fleet of fliers, which had itself lost its hundreds. in that vast running battle. As our rays tore into and through their shaken mass hundreds upon hudreds of their cylinders had been cloven through, had been reduced to whirling wreckage, and we lad evened the olds in our raging bettle at last!

Even as we cried out in triumph, the Neptunians must have seen that to continue in that running fight lower was suicidal for them. They could not change formation during that flight without exposing themselves to worse peril, so in desperation they did a completely unexpected thing. Their enormous mass of cylinders, bettered out of its half-tircle formation by our terrific fire of rays. anddenly awarved in toward our own fleet as the two great armedes rushed forward above Neptuce, and then that Nestunian fleet of extinders had crushed obliquely with immense power into our own space filer fleet! parat instant it had so merced with it that the two fleets ceased instantly to exist as such and for the moment became one colougal, awaying, reeling mass of cylinders and space-fliers in otter merged confusion, striking and soaring and smashing each other!

As that erest cylinder-arms/a crushed thus into our own it had seemed so me that the air all around us was fited in that justant with colliding space-fliers and evindoes, and with a hell of alreader vale and death; corresptested rays that raged thick in whirling death about us! I saw before us two ourushing evänders, whirled the flier up to avoid that imminent collision, and then as they passed beneath us, saw Randall send our rays driving down and cleaving through them, saw them whirl in wreckage into which a battling cylinder and faceted spaceflier had created themselves in the next instant! I beard Whitely's shout of alarm in the next stilt-second, instinctively flung the filer sidewise through the boiling ruck of the battle, just in time to exame a mir of stabbing rays from a cylinder beneath, and then saw those rays stab on no and strike another relinder and deatered it! And even as I whirled the filer sidewise, Randall was driving our rays to right and left against other cylinders rushing upon us!

THE air about us seemed there as how and space-a single wildly-swirling mass of cylinders and spaceflors, propoling with each other there in countless individual combats inextriculty intermixed, their weapon-rays going out in destruction through the craft that whirled upon them, their propulsion-rays driving the ships about them entally to right and left! With inconceivable fury cylinders and fliers soared and fought and fell above great Neptuse's roof, the air filled with falling wreckare, our great bank reaching now an undreamed-of phase of intensity, as gleaming cylinders and faceted bollthe space-filers were sumitained nike by hundreds! That giant merged combat of the two fleets had in minutes taken toll of half the force of each, and I wendered dimbr even as I whirled the flier up and back through the wild, annihilating battle bow either men of earth or disk-bodied Neptumons could eling to a lastile of such suicidal nature! Then suddenly from Martin had come a boarse exclamation, and I saw in that instant all the Neptunian cylinders intermixed with our space-fliers rising spward, as though in inswer to a single command?

But before he could finish the sentence, before our space-fliers could whirt upward in answer to his overmand, from the Neptunian cylinders massed above us had shot down upon us innumerable powerful propulsion-rays, rays that struck scores, hundreds, of our sourcefliers and drove them down with terrific force to crash against the metal roof of Neutone beceath oal. They were repeating the maneuver by which we four had escaped from our pursuers over Neptune weeks before were driving our flers down to crashing death in hondes! Instantly as Marlin shouted into the order-mouthoice. our fliers leaned forward, to escuse from that death that stacte us from above, but as we drove forward in one column formations again, they went on above us, were with their powerful propolision-rays driving us down to death in scores even as with those rave they presented us from rising to meet them! We were being cuickly destroyed now, and as we saw it, as our column flashed on with the Nepturian cylinders massing in another colarm above and driving our filers down by scores, we saw that not much longer could that unequal lattle contime! Then abruptly Mariin pointed ahead and downward to Nentune's mighty roof beneath us, was crying an

"Up!" cried Marlin. "The Nontunians are over us!

order to us and the frees behind and about us "That opening?" he cried. "Down through it-down beneath the roof! It's our one chance to escape them!" I cought my breath at that cry of his, for I saw that he was pointing down toward one of the great circular coenings in Neptune's roof, openings that were set in it here said there, all being open now as when we had first explored Neptune's prestones. To flash down beneath the roof through that opening was our one chance of escape from the relentless smiting death above. I saw it, too, so the next instant our own fier and all the lone column behind us were diving downward at a diszwing angle toward that great circular opening; and in the next moment before the Neptunion cylinders above could fathout our purpose, we had passed through that opening and were racing forward beneath the great roof! In an instart, though, the Neptunian cylinders had followed in their long column and were racing after us, through the dim Nepturium day above the dead and lifeless surface of

the great compartment-city that covered all of Nentune! On we flished, with the Neptunian column some distance behind, numbering now some half-thousand more in cylinders than our own bare thousand apage-fliers. On antil above us we saw another similar mening in the great roof, and then at Marlin's quick order our mirrow, long column of filers were stanting up toward it, through ic. And then, surside of the great roof once more, Marlin gave a swift order that revealed to me the purpose of his strategy. For at that order our fixet checked its unward rush and bent its long column lightning-like around to form a great circle, a circle hovering there around and above the great circular opening in the mof through which we had just emerged. And in the next moment, as the Neptunian column flashed up through that opening likewise in hot pursuit of us, never suspecting us of waiting there for it, from all the fliers of our great circle there had rediated toward them storm on storm of deadly concentrated rays, rays that source them with blinding shock as their column rushed upward and that crashed through hundreds of their upflashing cylinders even as they burst up through the opening, before ever they could eateh sight of us around them! In those seconds of daving

column of cylinders, as if too astromed for the moment to answer with a single ray, was flashing up from the encoing through a horrisons of rais that in that moment was anabileting their cylinders by bundreds? But a score three or four hundred cylinders of those that ran upword swirled for a moment in stonged confusion above us. and then were without formation racing gway from us over Neptune's surface, racing away toward the gleaming

disk of Triton! "Beaten!" I eried, as our own space-fliers whirled up now after the flering cylinders. "They're beaten-they're

"The giant ray!" Whitely was shooting, as we thun-dered forward. "We've still more than a thousand filers left, and if we can get now to that event son-eav-

"Hold steady after them!" Marlin eried, "We've

fought our way this far, and we've got now to get to that Now our over Nentune's surface, out through its mises and outer atmosphere again, the cylinders ahead were and discreanized mass, the remnants of that mishes

fleet that had come out to meet us outside Neptune. toward their moon-world of Triton, whose disk eleaned bright about. A thrill of pride even in our wild excitement about through me as we thundered on in pursuit of those flering extinders. For whatever else that day might hold for us, whether or not we were able to halt than giant ray on Triton's sursesed side that was reaching out had at least neewed our fighting ability to the solar system for all time, had come out to the solar system's edge and had shattered these the mighty armada of the Nestuniana' ancient and mighty race | And new as we flashed on in swift pursuit of the fleeing survivors of that annuals toward Triton, confidence and hone were strengthening in us each moment, for with the Nepturious' great flort

shattered what could hold us back from the shortering and halting of the giant sun-ray and its mechanism? Co-co-and now we were reshine after the feeing cylinders out of Neptune's atmosphere and isto the airless void again, with Triton growing each moment more bright and big as giant Neptune fell behind us. Acrossthe gulf from Neptuce to its moon we sped, after these we drew cluer to the Nestunians flying before us, and swiftly too drew closer to the gleaning sohere of Triton. our eyes at the sunward side of it the glass cale beam. heartly visible, of the colossal force, are action on the sun, that mighty my that was turning the sun over factor to the doors of the solar system! We could make not

distant fire-disk of the sun, and could make out also in that moment a great number of great lummed dark shares gathered on Triton's roof around the great pic of the sun-my. As our eyes shifted to Triton's other edge we could discern the other glast force ray, which reached out toward the distant star in Sagistarius and by beacing Triton with its prepage kept the moon-world from hefor hurled out into space by the sun-ray's necessary. Around this other ray's pit, too, were a few of the strature creat humsed or demed dark shapes, her in that IT was a wild, herce attempt on their part to hold us even to the last from their great ray, and as their there or four hundred cylinders massed so suddenly before us and faced us, our own pairms was barrier most then with all the impetus of our thousand and more stuce-filers? The next moment cylinder and space-filer were recling in a wild had struggle there high in Triton's

atmosphere, high above the pit of the giant sun-cay, with the mighter pale beam of that may passing up and out toward the sun and still baside set Like demons the Negerations were figheing now, but we were wrought up to the flercest pitch battle ourselves, and as Marlin gave his orders, we were awarring upon them with insensate fury, cylinder and space-fler crashing torother there above Triton or falling beneath the slicing sweeps of the weapon-rays that again moved thick around us! Foster, over inexe, fell the outsumbered cylinders before our wild arrack, used at lest best a score were left-a dozena helf-doorn-end then those, too, were gone, the last of the Neptunians' solchty flect of evinders annihilated? And now as from our hovering space-fliers, still over a thousand in number, there came muffled, wild cheers, our even were shifting downward, down to the event per from which the sen-ray sprang, down to the twenty control-

"Down to the nit-down to the controls?" Marlin was shouting over the wild uproor in our and the other fliers. "Every one of those control-baxes must be destroyed be-

fore we can halt the ray?" "We'll built the great may now?" I eried to him, as our space-fliers swooped downward now toward the giant pit

of the ray. "We've wined out their last forces and we C20---"But look-those great dones around the pit below?"

"They're get at deemed forts-great denied forts oversing For as we shot down toward the great pit of the

mistry increases we had seen clearly now the scores of git, which we had vaguely discerned from high allows And they were, as Whitely cried to us, great forus? Guant domed forts of inconcrivably thick and strong metal. each hundreds of feet in height, with openings here and there in them from which countiess deadly weapon-rays could be emitted. And these great denied forts, over a hundred in number, were success, were wheeling this way and that suspethly and swiftly on Triton's roof, were rircling slowly on that roof about the pit of the giant sunraw, expedime that nit and the control-hours in its walls! fished down toward them, we realized that the Necture inns had constructed those snighty storing forty of metal to guard their great force-gay's controls from our attack, placing more than a hundred of these around the nit of the event sun-ray, and a half-source of them as me had perceived, around the pit of the other great forceray on Triton's other side! And then, in the moment that Whitely cried out and that we see those great forts us, there had mixed upward from them toward us a moment we gave them small attention, for the evinders

Reeling, stargering, failing, our fleet spun in crazy disorder in the next moment as that terrific fire from beneath decimated as I And though in the next instant Marlin's voice rung steel-clear with an order, though in answer to that order our own concentrated rava radiated down madly toward those gliding mountain-like domed forts beneath us, it seemed that our rays had no effect upon them! For so stupendous in thickness and strength were those giant domed forts of metal, that instead of cleaving through them our rays could do no more than crumple and dent somewhat their amouth outer surfaces? They were insulnerable, almost, to our attack, and thrugh one of them was crumpled into twisted metal by scores of our rays hoppening to converge upon it, the others were almost enhanced and were raking us with a ter-

rible, annihilating rain of rays as we shot down over Down and down-and then as I shot our space-filer down foremost of our mass of fliers through that wild torsado of deadly rays, I saw the great pit's opening looming full beneath us, the giant pole beam coming up from that opening, the twenty vital control-boxes set at count intervals around its walls! Toward one of these control-boxes our own flier was whirting beneath my hands, and then Randall drove out like light our piercing weapon-rays toward that control box, clove through and wrecked it instantly! But it was but one of twenty, and in the next instant our space-fliers, unable longer to withstand that terrific fire of roys from the gatherine demed forts around the pit, were staggering upward, none other of our filers having progressed as far down as ours, and none other of the twenty control-howes being descroyed! And as our space-fliers reeled thus up-

ward, unable to reach the control-boxes in the pit against the awful fire of the cothernal doned forts shout it, we saw that more than a bundred of our flires had fallen beneath the terrific fire of rays from the focus in our mad resh downward! "Those twenty control-boxes?" Marlin was crying "We've not to destroy every one before the sun-ray will

halt!" "But we can't with these giant moving forts against us" Whitely cred. "They're wrong us out-they will have destroyed us in minutes!"

"We'll hold it to the end, then?" Marlin thoused. "We've fought our way out through the solar system to this great ray, and unless we halt it now it messa death for the solar system in a score more days! Down And down-down-fows-like striking, rushing me-

teors our hundreds of souce-fliers shee, to one side of the giant beam, down with the great domed forts beneath swiftly flashing over Triton's roof to mass beneath us at the pit's side. Through the little window-openings to those forts we saw the disk-bodied Neptunians inside, and know that beneath the great roof of Triton also were swatming the millions upon countless millions of all the Neptunin races, all the disk-hodied mousters in their great compartment-city, who, with this great my, were turning our sun faster and faster to divide in a score more days and doors the solar system! And with a desperation born of that thought we shot down once more, down with the hell of rays from the creat domed forts again raging up around us and taking tell of our fliers as we shot over them, curving back upward once more, and stabling again toward the control-boyes in

the pit's wall our weopon-rays so we reached that conve's

lowest point! But this time, though the great forts took toll again of scores of our fliers as we shot down over there and up again, over the pit and up again, our rays were so imperfectly aimed, that no control-hox was destroyed this time! Upward we swirled and then squin, with a persistence

more insensate than human, were racing downward again in a terrific swoop over the pit of the great ray! Again the deadly rays of the surrounding bundred domed forts errabed through our down-associate fliers, sending masses of them again into whirling wreckage, while as we swooped down over the pit and unward again in that

lightning-like rush through death we saw that our rays had suissed once more and that none of the controlboxes had this time been destroyed by them! And as we reeled upward again over the great pit, from over the giant domed forts, we saw that but a few more than five hundred space-fliers remained to us of the thousand and more with which we had first flashed downward! In three downward awoops only, in three lightning-like moments of attack, the giant invalorable forts beneath had armititated more than half our force, and we had succeeded in destroying but a single one of the twenty control-boxes !

"The end!" cried Whitely. "The end of our chance to halt the great sun-ray!" "The end of our great fight through the solar system -- the end of earth's and the solar system's last chance?"

For it was the end! Even as we critd out thus we knew it, beyond shadow of doubt, as the shattered mass of our remaising space-fliers recled high above Trimm's roof, high above the great pit of the pay and the colonal moving domed forts that guarded it! Martin-Whiteh -Randall-they were awaying in that moment, the knowledge of doors plain upon their faces as upon mine! Another great sweep downward and those giant, almost invelnerable moving forts would blast us entirely from the air with their storess of rays! All of the nineteen remaining controls below must be destroyed to halt the mighty sun-ray, and before we could destroy even one of would turn the sun on ever faster, turn it on until in a score more days the sun would divide at last into a double star and engulf its planets in its diverging firesall save Negrone! And as we carre thus to the coal at last of our superhuman arrangle to halt the solar system's doon there was coming up to us from beneath the great roof of Triton a vast, rolling muffled shouting of triumplasm Nepturians, of all the Nepturian horder anon Tri-

tion who saw as we did that for us the end had come! "But if it's the end, we'll spect it trying !" Randoll cried. "One more sweep downward-we can de that way at least--- !"

BUT from Marlin, who stood with crimson face and B blazing eyes, there came a mid shout. "The end-no?" he cried. "There's still a chence for up-to half the other ray-the ray on Triton's owtward side! The other ray! The other giant force-ray that went

from Triton's outward side, its dark side, into the cult of interstellar space toward that far star in Samttarina the other mighty ray that braced Tritten meaning the overal sun-ray's pressure and that kept that sun-ray's pressure

from burling Triton out into the great interstellar would! The other ray-and if it were halted-then Triton-I felt my mind reeling as the stupendous meaning of Marile's mad short came home to it! The other ray-guarded by only a half-score of the giant moving demed forts, inrays stalking about! Crash!-crash!-and those remain-

stead of the hundred beneath us-and then Marlin's voice was tearing across the throbbing, rushing din to my cars and instinctively I had obeyon his order, had shot our space-flier forward at immenor speed even as remaining fliers! I whirled it away from the great oil of the giant sun-ray and over Triton's roof at lightning speed toward its dark side, toward the other cont my that reached out into intercollar scoon from that dark

And as we rushed thus away with reeling speed, we heard the mighty thundering cheers of the Neutunian millions beneath the great roof changing to wild cries of starm, saw the hundred great domed forts around the sun-tay moving over Triton's roof after us with immense speed, themselves, eliding at utmost velocity on around that roof's amoon surface after us in sadden wild alarm! But more slow by a little than our massed space-fliers that solit the air above Triton they dropoed behind us righte alarm rolled across Triton's surface beneath the great roof! On-on-like rushing meteors massed close together our space-filers fleshed now, toward Triton's dark side around its surface, and then were whisling around that dark side, were whiching straight soward the colossed other hearn, the giant other force-ray that stabled out opposite from the sun-ray, that stabbed out toward Sagirrarius' bright star and by its oressure towards that star kent Triton braced against the sun-raw's outsued pressure! Martin was shouting, screaming an order as we

flashed downward, and we care he sight for a moment of the half-score domed forts, left as weards of this other ray's great cit and controls, and then like comets of metal our fliers were thundering down more them! Stender beams sprang quick to meet us from those ten great doned force, but though those beams drove gradumely upward upon us in parrow rays of death, it was not toward the domed forts that we were rushing, but soward the twenty control-boxes set in the wall of the giant pix from which this other mighty ray issued! Through the wildly-whirting beams that aliced the air about us we

flashed downward, and then as the pit's walls loomed close sheed, as heide us, almost thenfored into he us. loomed the pale, gigantic beam, we saw the out-intrincontrol-boxes full before us, set around the pir's great wall, and the beams of our massed space-frien were driving thick toward them! Crash!-crash!-crash!and we were abunting crarily as we saw half the twenty control-boxes swarking inward, anselulated by our first wild rush! And then as we arran around there in the cit, around the giant beam to annibiliate the other control-boxes, the rays of the tex showed forts sweeping away across Triton's metal roof-surface toward the hundred mighty shapes of the great demed forts reshing to the delease of this other ray, rushing to annihilate us! "The control-barrer" Martin cried. "The just control-

And even as he cried that, even as with their utmost immense soend the bundred colossal domed forts of metal rushed over Triton's metal roof to join with the outnumbered half-score beside us, to annihilate us with one combined mighty blast of their countless trees, our moved more-filers had whirled around the great pit. around the mighty ray, and were driving toward the rereceiving control-boxes in its wall with all their weapon-

intact in the next instant, a smele one that sufficed still to keep the right ray beside as going upward, outward, though! And even as we gathered, whirled to rush upon it also, the colosest rushing decred forts had appeared at the pit's edge around and above us, seeming to name for a split-second before their combined countless rays came down to available us! But in that instant, when the giant domed forts persed above us. Randall had whirled back the raw-awardes in his hands, and from our spacefirst and from a score more around us in the same instant there had Basked toward that last control-lox a conversing score or more of driving rays that instantly had enached through and had accelhilated that last control! And as that last control-box of all the giant ray's twenty was thus destroyed, there came what seemed a blinding

ing control beauts were counciling, quadring, beneath our

rays, with but a single control-box in the wall remaining

flish of light at the great ray-mechanism for in the mighty pit beneath us, and then the glant pale force-ray that radiated apward and outward from that mechanism had almostly snapped out beside us! There was a purse, a silence of a single instant, a rease in which all the universe about as seemed helding its breath, in which our rushing space-fliors were whirling up out of the great pit, in which the giant domed forts at the great pit's ofer lienesth us seemed held in an en-

character of superaction. And then as our massed space-fliers whirled thus upward over Triton's surface, as Marlin and Randall and Whitely stored downwood swaying, we saw the great metal-roofed world of Tricon rouling heneath us as though from some coloual shock, saw it reshing octoord from beneath no with colonal. mehinkable speed! Saw it rushing out with velocity inconeivable away from the sun, away from Nephine, away from the solar system, rucking out into the you word of intersteller space, harded into the poid with all the countless willions of the Neptunions upon it, buried into

Hurled into the void, we four knew even as we watched it which away from beneath us, by the pressure of its own colonial sun-raw, that continued to errorate from it i For that glast my which the Neptunisms had directed toward the sun had peaked inck upon Triton with pressure inconcrisable, even as we had known, and if had been only the other ray radiating out toward Surituries. distant star that had bened Triton thus against the sunray's unthinkable outward pressure! And with our halting of that immense other ray, with our halting of that bracing my, the moment that saw its connection of bracing force or pressure broken between Triton and that distant star saw Triton burkel out instantly by the pressure of its own giant sun-ray against the sun, that awful by from the hold of erest Neuture, its surent planet, from all the solar system, burling it out from the solar system's edge into the boundless orter void forever! Markin - Whitely - Randall-myself-on we rected

there as the window watching, as our scace-fliers whirled up and ortward from Tritten even as it shot centrard from beneath us, we now its glosming aphere swiftly diminishing as it hurtled out in the great void, saw that it was spinning as it shot outward from the impetus of it was whirling with its solution now! And then so its gleaning sphere shot out into the vold away from us, system's edge, shooting out into the cold and numbers outer void and bearing upon it all the Neptonian horder ing pleaning little sphere in the black void before us. was crying out to it as though to the Neptunian millions

"Yest of Nexture or we of Farth!" he cried. "One had to go to death-to dogsn! You fought for Neptune and your races as we fought for Earth and the solar

system-left Earth and the solar system win !"

Space-Rovers EFORE us earth and its little moon element brilliant in the blackness of space when our five hundred space-filers shot in toward them once agam, days later. Again we four held our familiar novitions in the four control-chairs of our space-flier, and again Martin and Randall and Whitely were gazing forth with me as at the head of those musted superfliers we moved in with slowing speed. It had been for a some of days that we had recied back therein the solar system from Necounc, from its edge, had neeled back from the berder line of that vast void of mace. burtling out into that wold forever. Past perilous Saturn. and next mighty Jupiter, and through the dangers of the asteroidal belt and past rod Mars once more we had sped. within us only a strange sick desire for earth once more: that earth which we knew, would be shaken even now with unimaricable rejoicings as its peoples saw the acceleration of the sun's spin that had menoced all one universe halted at last with the hurling forth of Triron days before. And now, as we sped in at last toward earth, it was in mutual silence that we onced ahead. Once again the outlines of earth's great cuttinents were

coming clear to our eyes as we shot nearer, and once by in shade, in night, toward the North American continent, to hover out from it, over it, and then to drop down toward it, down through the dockness of earth's might toward New York. Again beneath us carth's surface wawidening to a west dark plans as we sank down toward it, and then again through the darkness we had seen, beneath us, the elearning fights of New York, and were sinking lower toward them. Down-down-until New liance, one wast mass of blazing lights above which there flashed to and fro the innumerable brilliantly-lit sirenaft tike countless shuttles of light, the giant World-Governfor away around it burning with unequalled brillinger. and their roofs and the ways between them throughd once more with crowds, such crowds as never set had the mighty rity soon.

A strange dumbness held us, as we stelk slowly downward with our massed space-filers. Then, as a great whirling light-beam from beneath cought our filers' doscending mass, held us in its glare, other beams were swinging toward us, holding us bashed in a white flood of Eght as we sank downward. And as we were discovered thus to the vast througed city beneath, the swarming aircraft above it abrustly that downword from about on while the great rearing voice of the city's crowds abruntly crased as the city saw us. Down through a great salence, mighty city beneath, we dropped, our fliers separating and fulling smoothly over the crowds, over the seas of white. upturned faces, falling through that heshed silence toward the roofs of the great buildings beneath, our own toward the roof of the great World-Government building As we shot downward we saw that men that roof waited now for us a massed and silent crowd, as in the streets below, that had given lack to the roof's edges to make way for our own space-fire and three with my to

descend. Smoothly I leasened the nower of our lower ray, and smoothly we sank downward through the hell light lights above that most until at lest over own and the fires about us had come cently to rest upon it, the throb of our generators exasing. Then, with the same dense specy-flier's doors, and with Whitely and Randall and see behind him was steroing forth upon the great roof's surweariedly, with the men of our other fiers surbern now about us, we looked around. Beside us there stood. and around us, the mussed members of the World Conswan, with the World-President with them. Over these silent figures we looked, a little dazedly, and out over the superhammaly brilliant, superhammaly effect city that stretched about us, and then up toward the error constellations as though in reassurance. For they stretched above as as before, as always Canrieron and Sprittering and Searnin and the rest, with Juniter and Saturn and Mars shining there, and with great Neptune, invisible here to our eyes, and farther still than Neptune its moonworld of Triton burtling on toward those diguet sizes Duzedly, slowly, we looked, up and around us, while still around us that bushed, thick siknee held, and then saw that the World-President was coming toward us. Across the roof he came toward us from those silent crowds about us, his bands outstretched, his voice un-

"Marlin-Rendell-Hust-Whitely?" he said. 'And then-You have come back once more -back to the earth that you and your forces have saved." "We have come back," said Marlin, his voice low, "Have come back with what remains of those

And then, while the World-President and the World Congress stood silent before us, beceath the brittlent lights. Marlin was sugaling slewly to them, was creaking in short, halting words of our fight outward, our escure from the great ambush at Saturn, our wild pursuit on uned to Nextune and the coloural hottle that had ended there with our halting of the other ray, with our harling of Trans and all the Neptunians on it out into the wold to was listening, and as the speech-agreement beside us took Marin's slow words out to all the crowds in all the aust city about us, and beyond they, too, were lictening in that same tense stillness. Then, when he had firiplied, that stillness continued unbroken for moments.

"Martin-Whitely-Hant-Randall-I" he was say ing, arren. "There is no way in which we can tell, there is no peed for us to tell, what gratitude earth's peoples have now for you and for your men, who saved earth and all the splar system from a decadful death." Martin slowly shook his head. "That gratitude is not

for us plone who came back," he said, "but for those others of us who did not come back-who went to death out there for earth."

"We of earth know that," the World-President said,
"and our gratitude is for them as for you—our absence
now for them as for you. But you who came hash—you
four who dared first of all men out through the wad, and
who came hock to lead carries forces out to the terrific
struggle that stevel us—is it grafifieds only that earth can

give you?"
Martin half-turned, his eyes meeting our own. "There is nothing earth can give us, meet," he mid, "for we have that which never men have half before, have the appearance of the most have to we at the solar ayasen's weekle before they are have to we at the solar ayasen's weekle before the property of the solar ayasen's weekle before their partial way to be a solar and the property of the solar ayasen's and the great half-girly arbifract he not with all shown as the great half-girly arbifract he not with all shown as the great half-girly arbifract he not with all shown as

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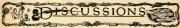
A Visit to Suari

By A. Hyatt Verrill

"And when I wid them of the form of somewhen they shook their hearing and declared it was all hor a talk, and adont where I had recorded such wild and foolith flows. There, aggregat somewhet that they should doubt the truth of my words, I talk those I was from Sonlo-Hann and how I and one to Sonlo." At this they have specified and devided into the turns, and regard that proof to the sonlow of the sonlow of the sonlow of the sould see that the sonlow of the sonlow of the development of the sonlow of the sonlow of Sonlow-Hann were utilize my forms they had ever some or fuzzionic. In wait a largued not prosoned with

then, but they, being so inferior in institlect and so refiactually that they were right, demanded that I should give them proof. What letter proof could they safe than that I was there on Sussi? What torse convincing that I could tell them of the Souko-Hannan beings, of come lines, our canonics, the things we have accomplished. "Yet they were not convinced, they demanded more, and as lost, ord of printene and no poet. I was not internal as lost, ord of printene and no poet. I was not internal as lost, ord of printene and no poet. I was not work to the source of the source of the control of the source of the source of the source of the conditions eyes, vanished from that right to extend the control of the source of the source of the source of the control of the source of the source

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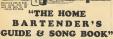
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